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PERSONAL.

Mr. L. M. Hastings has been reappointed City Engineer of Cambridge, Mass.

Mr. C. B. Smith, of Toronto, Ont., has been appointed City Engineer of Victoria, B. C.

Mr. J. Ross Robertson, City Engineer of Fort Madison, Ia., has been elected City Engineer of Keokuk, Ia.

Mr. C. A. Seley has been appointed Mechanical Engineer of the Norfolk & Western Ry. Co., vice Mr. G. R. Henderson, resigned.

Messrs. Whitham & Johnson, consulting engineers, have moved their office to 607 Philadelphia Bourse Building, of Philadelphia, Pa.

Mr. James Vantine has been elected Chief Engineer of the Water-Works Department of Blairsville, Pa., to succeed Mr. John Pierce, resigned.

Mr. K. S. Putnam has been appointed Superintendent of the Water-Works Department of Rome, N. Y., with Mr. C. T. Hayden as Deputy Clerk.

Mr. Wm. H. Arnolds has been appointed Superintendent of the W. H. Beard Dredging Co., to succeed the late Hon. D. M. Hurley, of Brooklyn, N. Y.

Mr. John F. O'Rourke, engineer and contractor, has removed his offices from 44 Broadway to the new Park Row Building, 13 to 21 Park Row, New York.

Mr. D. G. Hamilton has been elected President of the Chicago City Ry. Co., to succeed Mr. Menard K. Bowen, whose death was noted in our last issue.

Mr. Aaron Thompson, of Syracuse, N. Y., has been appointed by Superintendent of Public Works Partridge as Superintendent of Section 6, of the Erie Canal.

Mr. Oscar Sanne, of Harrisburg, Pa., has been appointed Designing and Estimating Engineer of the Bridge and Construction Department of the Pennsylvania Steel Co., with offices at Steelton, Pa.

Mr. Milan H. Hulbert, of New York city, has been appointed by Commissioner-General Peck as Director of Varied Industries to the United States Commission, for the Paris Exposition of 1900.

Mr. James Ritchie, M. Am. Soc. C. E., civil and consulting engineer, with office at 625 Hickox Building, Cleveland, O., has been appointed City Engineer of that city to succeed Mr. M. E. Rawson.

Mr. Clarence F. Horton, civil engineer, of Peekskill, N. Y., for the last three years in the employ of the U. S. Geological Survey, has accepted a position as Assistant Engineer with the Baltimore & Ohio Southwestern Ry., and is now located in Cincinnati, O.

Mr. Charles L. Parmelee has been appointed to take charge of the departments of chemistry, biology and engineering of the Continental Filter Co., with offices at 35 Wall St., New York city. He was connected with the filtration experiments at Louisville, Ky., and Cincinnati, O.

Mr. W. J. Clarke sailed for England on the "Etruria," on April 15. Mr. Clarke is the General Manager of the General Electric Co.'s foreign department, and is on his way to superintend the installing of the company's electric apparatus on the London, Bristol and Dublin tramways.

Capt. Lyle F. Bellinger, Company G, 3d Regt., U. S. V. Engrs., was married to Miss Annie Beall Dobbs, of Villa Rica, Ga., on January 31. Captain Bellinger has since been at Cienfuegos, Cuba, but left with a battalion of the regiment for the United States on April 13, to be mustered out of service.

Mr. Walter P. Rice, M. Am. Soc. C. E., President of the Walter P. Rice Engineering Co., Cleveland, O., has been appointed by Mayor Farley as Director of Public Works of that city, to succeed Mr. George R. Warden. Mr. Rice was formerly City Engineer of Cleveland. This is the first time an engineer has been appointed to fill the position of Director of Public Works of Cleveland.

Mr. J. B. Johnson, M. Am. Soc. Mech. E., Professor of Civil Engineering of Washington University, of St. Louis, Mo., sailed with his wife for Europe, on April 15, on the "Saale." The purpose of Mr. Johnson's trip is to study the "monotechnic schools" of Germany and the "colleges of commerce" of Belgium and France. He expects to return to the United States in the last of August on the "Barbarosa" from Southampton.

Mr. E. M. Hoadly has been appointed Assistant Engineer of Maintenance-of-Way of the Huntington Division of the Chesapeake & Ohio Ry., with offices at Hinton, W. Va., vice Mr. F. W. Scarborough, who has been appointed Engineer of Bridges and Signals, with offices at Richmond, Va. The authority of Mr. E. T. Morris, Assistant Engineer of the Lexington and Big Sandy Divisions, has been extended over the Cincinnati Division, with offices at Ashland, Ky. Mr. J. M. Hughes has been appointed Supervisor of the Big Sandy Division, with headquarters at Ashland, Ky.

Mr. William John Wilgus, M. Am. Soc. C. E., Engineer of Maintenance of Way of the New York Central & Hudson River R. R., was appointed Chief Engineer of the same company on April 15, to succeed Mr. Walter Katte, resigned. Mr. Wilgus was formerly Chief Engineer of the Rome, Watertown & Ogdensburg Railway, and when that road was absorbed by the New York Central system he entered the service of the latter.

Mr. Walter Katte, M. Am. Soc. C. E., has resigned his position as Chief Engineer of the New York Central & Hudson River R. R., on account of age; but is still connected with the road as Consulting Engineer. Mr. Katte commenced the practice of engineering in 1850, on the New Jersey Central. In 1870 he had charge of erecting the superstructure of the Eads bridge at St. Louis. He came East in 1877 and, until 1880, he was engaged in the erection of the Third and Ninth Avenue elevated railways in New York city. Upon the completion of the latter work he became Engineer of the Ontario & Western and the West Shore railways; and in 1886 he was appointed Chief Engineer of the system from which he has just resigned.

OBITUARY.

Mr. John G. Smith, contractor and builder, died at his home in Jersey City, N. J., from apoplexy, on April 15, aged 70 years.

Capt. William B. Skidmore, Superintending Engineer of the Brooklyn & New York Ferry Co., died at his home in Brooklyn, N. Y., on April 14, aged 78 years.

Mr. William Richardson, Ph. D., Professor of Analytical Chemistry of the Cooper Union Chemical Laboratory, of New York city, died on April 15, aged 56 years.

Mr. John K. Bulmer, a builder and a former Assistant Civil Engineer of the U. S. Navy, died at his home in Brooklyn, N. Y., on April 13, aged 80 years. He received his appointment in the navy in 1871, but for the last twenty years has been in the building business.

Mr. Charles Herbert Swan, M. Am. Soc. C. E., died at his home in Roxbury, Mass., on April 17, aged 57 years. For many years he was Assistant City Engineer of Providence, R. I., being occupied first on the water-works plant and later on the sewerage disposal of that city. He was one of the assistant engineers of the Transit Commission of Boston, and has also been closely connected with the Metropolitan Sewerage Commission of the same city.

ENGINEERING SOCIETIES

COMING TECHNICAL MEETINGS.

CHICAGO ELECTRICAL ASSOCIATION.
April 21. Secy., J. R. Cravath, 825 Monadnock Block, Chicago, Ill.

ROCHESTER ENGINEERING SOCIETY.
April 21. Secy., John F. Skinner, Reynolds Library Bldg., Rochester, N. Y.

THE DETROIT ENGINEERING SOCIETY.
April 21. Secy., Henry Goldmark, Wayne Co. Savings Bank Bldg., Detroit, Mich.

RAILWAY SIGNALING CLUB.
April 25. "Main Air Pipe and Connections for Electro-Pneumatic Signals and Switches," A. M. Keppel, Jr., and "Inspection of Interlocking Plants," W. H Elliott. Acting Secy., C. O. Tilton, C. M. & St. P. Ry., West Milwaukee, Wis.

FRANKLIN INSTITUTE.
April 25. "Electro-Magnetic Mechanism, Design of, with Reference to High Frequency Telegraphic Receivers," Prof. R. A. Fessenden, Secy., Wm. H. Wahl, 15 South 7th St., Philadelphia, Pa.

CIVIL ENGINEERS' CLUB OF CLEVELAND.
April 25. Secy., Wm. H. Searles, Case Library Bldg., Cleveland.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS
April 26. Secy., Ralph W. Pope, 26 Cortlandt St., New York city.

CANADIAN SOCIETY OF CIVIL ENGINEERS.
April 27. Secy., H. C. McLeod, 112 Mansfield St., Montreal, Que.

CIVIL ENGINEERS' SOCIETY OF ST. PAUL.
May 1. Secy., C. L. Annan, City Engineer's Office, St. Paul, Minn.

ENGINEERING SOCIETY OF WESTERN NEW YORK.
May 1. Secy., H. J. March, Library Bldg., Buffalo, N. Y.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
May 3. Secy., C. W. Hunt, 220 W. 57th St., New York city.

WESTERN SOCIETY OF ENGINEERS.
May 3. Secy., N. L. Litten, Monadnock Block, Chicago, Ill.

FOUNDRYMEN'S ASSOCIATION (Philadelphia).
May 3. Secy., Howard Evans, Pier 45, N. Delaware Ave., Philadelphia, Pa.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
May 5. Secy., O. Von Geldern, 819 Market St., San Francisco, Cal.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
May 5. Secy., Henry I. Weed, Brooklyn Institute of Arts and Sciences, Brooklyn, N. Y.

THE ENGINEERS' CLUB OF PHILADELPHIA.
May 6. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.

ENGINEERS' CLUB OF ST. LOUIS.
May 7. Secy., E. R. Fish, 2401 N. Spring Ave., St. Louis, Mo.

ENGINEERS' CLUB OF KANSAS CITY.
May 8. Secy., F. W. Tuttle, Baird Bldg., Kansas City, Mo.

THE LOUISIANA ENGINEERING SOCIETY.
May 8. Secy., J. F. Coleman, 712 Union St., New Orleans, La.

NEW ENGLAND RAILWAY CLUB.
May 9. Secy., Edw. L. Janes, P. O. Box 1158, Boston, Mass.

NORTHWEST RAILWAY CLUB.
May 9. Secy., T. A. Foque, Soo Line, Minneapolis, Minn.

DENVER SOCIETY OF CIVIL ENGINEERS.
May 9. Secy., W. B. Lawson, 36 Jacobson Bldg., Denver, Colo.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
May 9-12. Spring meeting, Washington, D. C. Secy., F. R. Hutton, 12 West 31st St., New York city.

AMERICAN INSTITUTE OF ARCHITECTS (New York Chapter).
May 10. Secy., Chas. I. Berg, 10 West 23d St., New York city.

BROOKLYN ENGINEERS' CLUB.
May 11. Secy., A. J. Provost, Jr., 191 Montague St., Brooklyn, N. Y.

ENGINEERING ASSOCIATION OF THE SOUTH.
May 11. Secy., H. M. Jones, 1000 Broad St., Nashville, Tenn.

WISCONSIN STATE CHEMICAL ASSOCIATION.
May 12. Secy., I. Ladoff, 154 Knapp St., Milwaukee, Wis.

ST. LOUIS RAILWAY CLUB.
May 12. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.

CENTRAL RAILWAY CLUB.
May 12. Secy., H. D. Vought, 114 Fifth Ave., New York city.

MONTANA SOCIETY OF ENGINEERS.
May 13. Secy., A. S. Hovey, National Bank Bldg., Helena, Mont.

TECHNICAL CLUB OF OMAHA.
May 15. Secy., J. Harry Lawrie, Omaha, Neb.

ENGINEERS' CLUB OF MINNEAPOLIS.
May 15. Secy., H. E. Smith, 1620 S. E. 14th St., Minneapolis, Minn.

ENGINEERS' AND ARCHITECTS' CLUB OF LOUISVILLE.
May 15. Secy., Marshall Morris, 16 Norton Bldg., Louisville, Ky.

WESTERN RAILWAY CLUB.
May 16. Secy., F. M. Whyte, 225 Dearborn St., Chicago, Ill.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA
May 16. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

BOSTON SOCIETY OF CIVIL ENGINEERS.
May 17. Secy., S. E. Tinkham, City Hall, Boston, Mass.

WESTERN FOUNDRYMEN'S ASSOCIATION.
May 17. Annual meeting. Secy., B. M. Gardner, 1522 Monadnock Block, Chicago, Ill.

ENGINEERS' CLUB OF CINCINNATI.
May 18. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O.

SOUTHERN AND SOUTHWESTERN RAILWAY CLUB.
May 18. Secy., F. A. Charpiot, P. O. Box 13, Savannah, Ga.

NEW YORK RAILROAD CLUB.
May 18. Secy., W. W. Wheatley, 168 Montague St., Brooklyn, N. Y.

ENGINEERS' CLUB OF COLUMBUS.
May 20. Secy., H. M. Gates, 12½ North High St., Columbus, O.

NATIONAL ELECTRIC LIGHT ASSOCIATION.
May 23-25. Annual meeting, New York. Secy., Geo. F. Porter, 136 Liberty St., New York city.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.—A social meeting of this society was held at the Society House, Pittsburg, Pa., on the evening of April 8.

ST. LOUIS RAILWAY CLUB.—A meeting of this club was held on April 14. Mr. L. L. Gilbert, assistant counsel for the Pennsylvania Lines west of Pittsburg spoke on "Securing Greater Safety to Railway Employees and Others."

BROOKLYN ENGINEERS' CLUB.—A regular meeting of this club was held on April 13 to discuss the subject of "Plans and Specifications." The concensus of opinion was that specifications could not be worded too carefully to avoid the possibility of misunderstanding. The two points essential to a proper set of specifications were to tell the contractor what to do and how to do it.

EASTERN MAINTENANCE OF WAY ASSOCIATION.—This is the new name of the New England Roadmasters' Association. The change of name was decided upon at a special meeting held in March, and at the same time it was determined to enlarge the territory of the association so as to include all railways east of the Mississippi River. The association will hold its annual meeting at Portland, Me., in August.

THE FOUNDRYMEN'S ASSOCIATION.—The 87th meeting of this association was held at the Manufacturers' Club, Philadalphia, on April 5. Mr. P. D. Wanner, President of the association, presented a short address on "Cast-Iron Pipe and Consolidation," which was a review of the growth of the industry and an account of two efforts to form a consolidation of pipe manufacturers. Following the address the question, "Are foundrymen getting casting prices consistent with the advanced price of raw material? If not, why not?" was taken up and discussed. The conclusion reached was that the situation was improving and better prices were being asked.

RAILWAY TRANSPORTATION ASSOCIATION.—This is a newly organized association, representing the transportation department of railway service. The first meeting will be held in June or July, after which there will be semi-annual meetings. Committees have been appointed to report on "Car Service," "Interchange and Distribution of Equipment" and "Movemnt of Trains on a Tonnage Basis." The officers are as follows: Pres., J. M. Daly, Superintendent of Transportation, Illinois Central R. R.; Vice-Pres., C. B. Adams, Superintendent of Transportation, Wabash R. R.; Secy. and Treas., G. P. Conard, Railway Equipment and Publication Co., 24 Park Place, New York, N. Y.

CIVIL ENGINEERS' CLUB OF CLEVELAND.—The regular meeting of this club was held at Case School of Applied Science on April 11. Before the meeting the laboratories of the school were visited by many members and friends, the new 100-ton testing machine and the steam turbine receiving special attention. Dr. Chas. S. Howe, of the House Committee, reported that rooms had been rented in the Arcade for the joint use of the Technical Clubs, and that they were now being decorated and furnished and would be ready for occupancy about May 1. Prof. Chas. H. Benjamin then read the paper of the evening, entitled "Power Consumed by Shafting and Belts." The paper was well illustrated with slides and a Flather dynamometer was exhibited.

Arthur A. Skeels, Secy.

ENGINEERS' CLUB OF ST. LOUIS.—The regular meeting of this club was held on April 5. Mr. W. A. Layman read the paper of the evening, entitled "Alternating Current Power Motors." The various uses to which motors may be put were mentioned. The difference between direct and alternating currents, and the methods of generating polyphase currents were described and illustrated by means of diagrams. The development of the induction motor by Tesla and the results of his investigations were pointed out. While there have been many types of two and three-phase motors brought out, there has not been until lately a successful single-phase motor. A motor of this type is highly desirable, because of its applicability to the common lighting circuit, and because it necessitates no change in the power-house equipment. The essential differences between the single and multiphase motors and the details of a successful single-phase motor were fully described. Some interesting results of tests on a 5-HP. motor were illustrated by diagrams. The paper for the next meeting will be "The Engineers' Club of St. Louis, Its History and Work," by Mr. W. H. Bryan. E. R. Fish, Secy.

THE AMERICAN RAILWAY ASSOCIATION.—The spring meeting of this society was held at the Hotel Cadillac, Detroit, Mich., on April 12. About 90 roads were represented, there being 125 delegates present.

The final report of the Committee on Train Rules was presented and adopted, with a few slight changes. The report of the Committee on Car Service was also adopted. The Committee on Safety Appliances presented a report, which included a tabulated summary of the replies to circulars sent out by the Committee to determine the number of automatic couplers and air and power brakes in use. This report is given elsewhere in this issue. The report was approved as presented. The Joint Committee on Interlocking and Block Signals reported progress, and stated that it expected to transmit a full report at the next meeting. The report of the Committee on Metric System continued the recommendations of last year, and gave abstracts from foreign publications to show the necessity of using the metric system in foreign transactions.

The Committee on Statistical Inquiry reported progress. The report of the Committee on Revision of Rules of Order will be presented with recommendations at the next meeting.

The officers elected for the ensuing year were as follows: Pres., L. F. Loree, Gen. Mgr., Pennsylvania Lines West of Pittsburg; First Vice-Pres., W. H. Baldwin, Jr., Pres. Long Island R. R.; Second Vice-Pres., J. T. Harahan, Second Vice-Pres. Ill. Cent. R. R. Messrs. Rollin H. Wilbur, Gen. Supt. Lehigh Valley R. R., and C. G. Waldo, Gen. Mgr. Cincinnati, Hamilton & Dayton R. R., were elected members of the Executive Committee.

The Illinois Central R. R.; Chicago, Burlington & Quincy R. R. and the Atlantic Coast Line were elected members of the Committee on Train Rules. New York city was selected as the next place of meeting, and Oct. 11, 1899, as the date of meeting.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.—As already announced in this column, the 39th meeting of this society will be held at Washington, D. C., from May 9 to 12. The Arlington Hotel has been selected as business headquarters, and the Professional sessions will be held at that place. The following papers will be read:

May 10, Morning.—"Standards for Direct-Connected Generating Sets," J. B. Stanwood; "Boiler and Furnace Efficiencies," R. S. Hale; "Test of a Steam Separator," F. L. Emory; "Investigations of Boiler Explosions," Gus. C. Henning.

May 10, Evening.—"Relation Between Initial Tension and Power Transmitted by a Belt," F. L. Emory; "Experiments on Various Types of Fire Hydrants," C. L. Newcomb; "Experiments with Deep-Well Pumping Rods," G. W. Bissell; "Pipe Flanges and Their Bolts," A. F. Nagle; "Manufacture of Car Wheels," George R. Henderson.

May 11, Morning.—"Equipment of Tall Office Buildings in New York City," R. P. Bolton; "The Central Heating Plant of the University of Wisconsin," Storm Bull; "The Power Plant of a University," E. A. Darling; "The Plunger Elevator," G. I. Alden; "Elevators," C. R. Platt.

May 12, Morning.—"The Allen Valve for Locomotives," C. H. Quereau; "Rolling Mill Fly-Wheels," John Fritz; "New System of Valves for Steam Engines, Air Engines and Compressors," F. W. Gordon.

In addition to the professional part of the meeting, an interesting social and sight-seeing program has been arranged. This will begin with an informal reception on the evening of May 9th, in the New Corcoran Gallery of Art. The following afternoon President McKinley will receive the society at the White House. The afternoon of May 11 will be given up to inspecting the U. S. Navy Yard and Gun Factory, while a reception will be given in the evening by Mrs. George Westinghouse. Mount Vernon, the Washington Monument, the Congressional Library and other points of interest, with which Washington abounds, will be visited between the sessions.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Apr. 20.	Air cylinders, etc.,	Montgomery, Ala.	Mar. 30
	Advertised, Eng. News, Mar. 30 to Apr. 20.		
Apr. 20.	Water pipe, hydrants, etc.,	New York	Apr. 13
Apr. 20.	Roads (15½ miles),	Rockville, Ind.	Apr. 13
Apr. 21.	School building,	Milton, Mass.	Apr. 13
Apr. 21.	Plate girder and lift bridges,	Albany, N. Y.	Apr. 13
	Advertised, Engineering News, Apr. 13.		
Apr. 21.	School building,	Blairsville, Pa.	Apr. 20
Apr. 21.	Bridge,	Pittsburg, Pa.	Apr. 20
Apr. 22.	School building,	Bethel, Me.	Apr. 20
Apr. 22.	College building,	Atlanta, Ga.	Apr. 20
Apr. 22.	Swing bridge,	Bay City, Mich.	Apr. 20
Apr. 22.	Grading and surfacing,	Leicester, Mass.	Apr. 20
Apr. 22.	Street material,	Harrisburg, Pa.	Apr. 20
Apr. 22.	Electric lighting,	Jeffersonville, Ind.	Apr. 6
Apr. 22.	School building,	Springfield, Minn.	Apr. 13
Apr. 22.	Race track,	Nazareth, Pa.	Apr. 13
	Advertised, Engineering News, Apr. 13.		
Apr. 23.	Steel bridge,	Raleigh, N. C.	Mar. 23
Apr. 24.	School building,	Dayton, O.	Apr. 13
Apr. 24.	Grading and surfacing,	Revere, Mass.	Apr. 13
Apr. 24.	Dredging harbor,	New York, N. Y.	Mar. 30
	Advertised, Eng. News, Mar. 30 to Apr. 20.		
Apr. 24.	School building,	Euclid, O.	Apr. 6
Apr. 24.	Two iron bridges,	Huntington, W. Va.	Apr. 6
Apr. 24.	Heating, repairs, etc.,	New York.	Apr. 20
Apr. 24.	School building,	Carlisle, Pa.	Apr. 20
Apr. 24.	Electric plant, etc.,	Toronto, Ont.	Apr. 20
Apr. 24.	Sewers,	New Haven, Conn.	Apr. 20
Apr. 24.	Paving brick,	Ithaca, N. Y.	Apr. 20
	Advertised, Engineering News, Apr. 20.		
Apr. 24.	Asphalt and brick paving,	N. Orleans, La.	Apr. 20
Apr. 24.	Macadamizing,	Defiance, O.	Apr. 20
Apr. 24.	Street work,	Lafayette, Ind.	Apr. 20
Apr. 24.	Asphalt & brick paving,	Michigan City, Ind.	Apr. 20
Apr. 25.	Sewers,	Jersey City, N. J.	Apr. 20
Apr. 25.	Electric lighting,	Nanticoke, Pa.	Apr. 20
Apr. 25.	Bridge draws and piers,	Cambridge, Mass.	Apr. 20
Apr. 25.	Bridge abutments,	Toronto, Ont.	Apr. 20
Apr. 25.	Paving, grading, etc.,	Jersey City, N. J.	Apr. 20
Apr. 25.	Lighting fixtures,	Worcester, Mass.	Apr. 20
Apr. 25.	Public lighting,	South Amboy, N. J.	Apr. 20
Apr. 25.	Church building,	Woonsocket, R. I.	Apr. 6
Apr. 25.	Coal shed, etc.,	St. Louis, Mo.	Apr. 13
Apr. 25.	Grading, paving, etc.,	Greenville, Pa.	Apr. 13
	Advertised, Eng. News, Apr. 13 and 20.		
Apr. 25.	Office building,	Monticello, Ia.	Apr. 13
Apr. 26.	Railway and highway bridges,	Chicago, Ill.	Apr. 13
	Advertised, Engineering News, Apr. 13.		
Apr. 26.	Sewers (8¾ miles),	Cohoes, N. Y.	Apr. 13
	Advertised, Engineering News, Apr. 13.		
Apr. 26.	Dredging two channels,	New York.	Mar. 30
	Advertised, Eng. News, Mar. 30 to Apr. 20.		
Apr. 26.	Water-works, etc.,	Fort Peck, Mont.	Mar. 30
Apr. 26.	Dredging harbor,	Cleveland, O.	Mar. 30
	Advertised, Eng. News, Mar. 30 and Apr. 6.		
Apr. 26.	Pipe sewers,	Elkhart, Ind.	Apr. 20
Apr. 26.	Brick paving,	Newport, Ky.	Apr. 20
	Advertised, Engineering News, Apr. 20.		
Apr. 27.	Hospital building,	Richmond, Ind.	Apr. 20
Apr. 27.	Fair building,	Easton, Pa.	Apr. 20
Apr. 27.	Heating and ventilating,	Washington, D. C.	Apr. 20
Apr. 27.	Steam heating, etc.,	Raleigh, N. C.	Apr. 20
Apr. 27.	Asphalt and granite paving, etc.,	Newark.	Apr. 20
Apr. 27.	Sewer system,	Tybee Island, Ga.	Apr. 6
Apr. 27.	Pier of aqueduct bridge,	Georgetown, D. C.	Mar. 30
	Advertised, Eng. News, Mar. 30 to Apr. 20.		
Apr. 27.	Removing reservoir,	New York, N. Y.	Apr. 13
Apr. 27.	U. S. building repairs,	Detroit, Mich.	Apr. 13
Apr. 27.	School building,	Passaic, N. J.	Apr. 13
Apr. 27.	Electric lighting,	Mechanicsburg, Pa.	Apr. 13
Apr. 27.	Sheet asphalt paving,	Meriden, Conn.	Apr. 13
	Advertised, Engineering News, Apr. 13.		
Apr. 28.	Water tanks, etc.,	Pipestone, Minn.	Apr. 6
Apr. 28.	Broken stone,	New York, N. Y.	Mar. 30
	Advertised, Eng. News, Mar. 30 to Apr. 20.		
Apr. 28.	Reservoir,	Cincinnati, O.	Mar. 30
	Advertised, Eng. News, Mar. 30 to Apr. 27.		
Apr. 28.	Water mains,	Cincinnati, O.	Mar. 30
	Advertised, Eng. News, Mar. 30 to Apr. 27.		
Apr. 28.	Hydrant jackets, lead, etc.,	Minneapolis.	Apr. 20
Apr. 28.	Paving materials, etc.,	New York,	Apr. 20
Apr. 29.	Bridge work,	Seneca, Ill.	Apr. 20
	Advertised, Engineering News, Apr. 20.		
Apr. 29.	Building plans,	New Haven, Conn.	Mar. 23
Apr. 29.	Hospital building,	Carthage, O.	Apr. 13
May 1.	School building,	Schenectady, N. Y.	Apr. 13
May 1.	Brick and pipe sewers,	Logansport, Ind.	Apr. 13
May 1.	City hall,	Lake City, Minn.	Apr. 13
May 1.	Brick paving,	Benwood, W. Va.	Apr. 13
May 1.	Interior building work,	St. Paul, Minn.	Apr. 13
May 1.	School bonds ($67,000),	Council Bluffs, Ia.	Apr. 13
May 1.	Bridge substructure,	Winchester, England.	Apr. 13
May 1.	Market hall,	Stockton-on-Tees, England.	Apr. 13
May 1.	Water bonds,	Stayner, Ont.	Apr. 13
May 1.	Brick paving,	Bradford, Pa.	Apr. 13
May 1.	Electric and water plant,	Culiman, Ala.	Mar. 30
May 1.	Rip-rap embankment, Two Harbors,	Minn.	Apr. 6
	Advertised, Eng. News, Apr. 6 to 27.		
May 1.	Extending electric plant,	Barrie, Ont.	Apr. 20
May 1.	Water-works,	College Hill, O.	Apr. 20
May 1.	Bridges (3),	Bethany, Mo.	Apr. 20
May 1.	Sewers,	Williamsport, Pa.	Apr. 20
May 1.	Water pipe,	Martinez, Cal.	Apr. 20
May 1.	Steel vault,	Montgomery, Tex.	Apr. 20
May 1.	Brick paving,	Williamsport, Pa.	Apr. 20
	Advertised, Engineering News, Apr. 20.		
May 1.	Cement sidewalks, etc.,	Middletown, Ind.	Apr. 20
May 1.	Collecting garbage,	Chicopee, Mass.	Apr. 20
May 2.	Pipe sewers,	Olean, N. Y.	Apr. 20
	Advertised, Engineering News, Apr. 20.		
May 2.	Brick sewers,	Hammond, Ind.	Apr. 20
May 2.	Church building,	Spartanburg, S. C.	Apr. 20
May 2.	Dumping carts (4),	New York, N. Y.	Apr. 20
May 2.	Windmill,	New York, N. Y.	Apr. 20
May 2.	Electric plant, water-wks,	Mayville, N. Dak.	Apr. 20
May 2.	Electric and gas lighting,	Florence, Ala.	Apr. 20
May 2.	Electric plant,	Kansas City, Mo.	Apr. 20
May 2.	Dredging, Wallabout channel,	New York.	Apr. 6
	Advertised, Eng. News, Apr. 6 to 27.		
May 3.	Dredging, Gowanus Creek,	New York.	Apr. 6
	Advertised, Eng. News, Apr. 6 to 27.		
May 3.	Sewerage system, Sauk Centre,	Minn.	Mar. 30
	Advertised, Eng. News, Mar. 30 and Apr. 6.		
May 3.	Water-works, Winchester,	Ind.	Apr. 20
	Advertised, Eng. News, Apr. 20 and 27.		
May 3.	Repairing asphalt pavement,	Cincinnati, O.	Apr. 20
May 3.	Electric plant, Winchester,	Ind.	Apr. 20
	Advertised, Eng. News, Apr. 20 and 27.		
May 4.	Hospital building, etc.,	Morris Plains, N. J.	Apr. 20
May 4.	Asylum building,	Whitehall, Wis.	Apr. 20
May 4.	Asphalt and brick paving,	Ft. Wayne, Ind.	Apr. 13
May 4.	Shop building,	Carson, Nev.	Apr. 13
May 5.	Brick sewer,	Bridgeport, Conn.	Apr. 13
	Advertised, Eng. News, Apr. 13 and 20.		
May 6.	Levee work,	West Memphis, Ark.	Apr. 13
	Advertised, Engineering News, Apr. 13.		
May 6.	Lock and dam,	St. Louis, Mo.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 4.		
May 6.	Cement,	Washington, D. C.	Apr. 20
	Advertised, Engineering News, Apr. 20.		
May 6.	Street work,	Mansfield, O.	Apr. 20
May 8.	Heating and ventilating,	Brockton, Mass.	Apr. 20
	Advertised, Eng. News, Apr. 20 and 27.		
May 8.	School bldg, sewers, etc.,	San Carlos, Ariz.	Apr. 20
May 8.	Sewers,	Elyria, O.	Apr. 20
May 8.	School building,	Pima, Ariz.	Apr. 13
May 8.	Water franchise,	Orange, Cal.	Apr. 13
May 8.	Dredging,	Peekskill, N. Y.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 4.		
May 9.	Feeder canal (13 miles),	Tampico, Ill.	Apr. 6
	Advertised, Eng. News, Apr. 6 to May 3.		
May 9.	Bridge complete,	Binghamton, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 and 27.		
May 9.	Heating,	Hallock, Minn.	Apr. 20
May 9.	Electric plant,	Moundsville, W. Va.	Apr. 20
May 9.	Bridge,	Birmingham, O.	Apr. 20
May 10.	Buildings,	San Francisco, Cal.	Apr. 20
May 10.	Sewers,	Chicago, Ill.	Apr. 20
May 10.	Dredging,	New London, Conn.	Apr. 20
	Advertised, Eng. News, Apr. 13. to May 4.		
May 10.	Electric plant,	Galt, Ont.	Apr. 13
May 10.	Oil tanks (4),	Montreal, Que.	Apr. 13
May 10.	Concrete superstructure,	Buffalo, N. Y.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 4.		
May 11.	Ice plant, and cold storage,	West Point, N. Y.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 4.		
May 11.	Plumbing and drainage,	New York	Apr. 20
May 12.	Buildings,	Crow Creek, S. Dak.	Apr. 20
May 12.	Dredging,	Mobile Bay, Ala.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 13.	Dipper dredges (2),	Chattanooga, Tenn.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 4.		
May 13.	Electric plants (2),	St. Helena Isl. N. Y.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 4.		
May 13.	Naphtha lamps,	Washington, D. C.	Apr. 20
	Advertised, Engineering News, Apr. 20.		
May 13.	Street lanterns,	Washington, D. C.	Apr. 20
	Advertised, Engineering News, Apr. 20.		
May 15.	Water pipe,	Wellsville, O.	Apr. 20
May 15.	Steam road roller,	Nanaimo, N. B.	Apr. 20
May 15.	Dredging, etc.,	Sandusky, O.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 15.	Dredging,	Huntington Harbor, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 15.	Electric lighting,	Lebanon, Pa.	Apr. 20
May 15.	Steel bridges (7),	Honolulu, H. I.	Apr. 20
May 15.	Railway,	Chili	Apr. 13
May 15.	Sewers,	Medford, Ore.	Mar. 30
May 15.	Church building,	Hartley, Ia.	Apr. 20
May 15.	Water-works,	Gold Hill, Ore.	Apr. 20
May 15.	Water-works,	Gallatin, Tenn.	Apr. 20
	Advertised, Engineering News, Apr. 20.		
May 16.	Immigrant building,	Ellis Island, N. Y. H.	Apr. 20
	Advertised, Eng. News, Apr. 20 and 27.		
May 16.	Water pumps, etc.,	Ottawa, Ont.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 4.		
May 17.	Dead house,	Washington, D. C.	Apr. 20
May 17.	Sand, Fisher's Island,	N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 17.	Dredging,	Wisconsin.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 17.	Dredging, etc.,	Portchester, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 15.	Brick paving,	Glens Falls, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 17.	Sewerage system,	Auburn, Ill.	Apr. 20
	Advertised, Engineering News, Apr. 20.		
May 18.	Dredging ship channel,	Baltimore, Md.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 4.		
May 18.	Removing rock, etc.,	Mystic River, Conn.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 18.	Dredging, Stamford Harbor,	Conn.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 19.	Pier work, St. Joseph,	Mich.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 20.	Dredging plant,	Buffalo, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 22.	Public lighting,	Vincennes, Ind.	Apr. 13
May 25.	Sewer system,	Johannesburg, S. Africa.	Mar. 9
June 1.	Electric plant,	Prineville, Ore.	Apr. 13
May 31.	Armor plate,	Washington, D. C.	Apr. 6
May 31.	Plate girder railway bridge,	Joliet, Ill.	Apr. 13
	Advertised, Engineering News, Apr. 13.		
May 31.	Dredges (2),	St. Louis, Mo.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 25.		
June 1.	Plans for market,	Leeds, England.	Feb. 16
June 8.	Building,	Harrogate, England.	Apr. 13
June 10.	Timber dry-dock,	Mare Island, Cal.	Apr. 13
June 30.	Electric r'y (23 miles),	Shanghai, China.	Mar. 2
	Advertised, Eng. News, Nov. 17 to Dec. 8.		
Oct. 1.	Electric street railway,	Moscow, Russia.	Mar. 9
No date.	Railway (50 miles),	Michigan	Apr. 13
	Advertised, Engineering News, Apr. 13.		
No date.	Water pipe,	Peekskill, N. Y.	Apr. 20
"	Brick and stone paving, etc.,	Ithaca, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 4.		

RAILWAYS.

ALGOMA CENTRAL.—This company has been chartered by the legislature of Ontario to construct a railway from Sault Ste. Marie, Mich., to Missinabie, Ont., on the main line of the Canadian Pacific Ry., through an unbroken wilderness possessing fertile soil, valuable forests and rich mineral resources. Surveys are now being made under Engineer J. A. Wilde, according to reports, so as to be ready to begin construction during the coming summer. F. H. Clergue, Pres. of American Lake Superior Power Co., Sault Ste. Marie, Mich.

BALTIMORE & OHIO.—Jolly Bros. & Co., 301 Smithfield St., Pittsburg, Pa., are reported to have received the contract for excavating and grading for a second track for this system between Bellaire, O., and Chicago Junction, 100 miles, requiring about 70 miles of new track; estimated cost, over $1,000,000. Work was to begin at once, using three steam shovels and 150 three-yard cars and six small locomotives.

BOISE, NAMPA & OWYHEE.—Reports state that McDonald & Kase, Nampa, Idaho, will soon begin grading for an extension from its present terminus at Guffey, Idaho, south 10 miles through an agricultural and mining district to Striker Springs. J. M. Clark, Ch. Engr., Nampa.

BRAZIL.—Arthur Koppel, 68 Broad St., New York, N. Y., is reported to have sent out two parties of engineers to make reconnoissance surveys for light railways to develop the timber resources of the southern portion of Brazil.

BRISTOL, ELIZABETHTON & NORTH CAROLINA.—Contracts are said to have been let for building a branch from Elizabethton to Mountain City, Tenn., about 28 miles. It is also said that this company will purchase the East Tennessee & Western North Carolina Ry., from Johnson City to Cranberry, N. C., 34 miles, and convert it from a narrow-gage road to standard-gage, and extend it to Lincolnton, N. C. W. B. Emmert, Supt., Bristol, Tenn.

CENTRAL OF GEORGIA.—Reports from Columbus, Ga., state that Hardaway, Jones & Co. have been awarded the contract for constructing an extension of this line from Searight to Andalusia, Ala., 17½ miles; work is to begin at once. William Hunter, Ch. Engr., Savannah, Ga.

CENTRAL R. R. OF NEW JERSEY.—Reports state that this company is about to begin work at Lawrenceville, N. J., with the view of running a line from Trenton to Bound Brook, via Princeton, N. J. It is said that this will shorten the route between New York and Philadelphia by twenty minutes. J. H. Thompson, Ch. Engr., Jersey City, N. J.

CHATTAHOOCHEE VALLEY.—This company, now operating 10 miles of line between Riverview, Ala., and West Point, Ga., is said to contemplate the construction of an extension to Columbus, Ga., this year, a distance of 25 miles. L. Lanier, Pres., West Point, Ga.

CHICAGO GREAT WESTERN.—We are informed that this company is going to make several improvements on its line between Chicago, Ill., and Oelwein, Ia., including the revision of grades, extension of side tracks, ballasting, and the laying of new steel. The Bracey-Fletcher Co., 1104 Bedford Bldg., Chicago, has been awarded the contract for grading, and will probably sublet a portion of it. H. Fernstrom, Ch. Engr., St. Paul, Minn.

CHILE.—Bids are asked by the Chilian Government until May 24, according to reports, for 5,000 tons of rails.

CLARION RIVER.—This line is reported to have been sold to a New York syndicate, headed by John Byrne, for $180,000. It is said that connections will be made with the Buffalo, St. Mary's and Southwestern R. R. by extending the line from Croyland to Centerville, Pa. B. E. Wellendorf, Gen. Supt., St. Marys, Pa.

COLORADO & NORTHWESTERN.—This company has made an offer to the citizens of Boulder, Colo., to build a spur from its main track in the canyon to the Chautauqua grounds. J. L. Frankeberger, Ch. Engr., Boulder.

DETROIT & TOLEDO SHORE LINE.—Incorporated in Michigan, April 14, with $1,500,000 capital stock, to construct the projected Pleasant Bay Ry., and to extend to Detroit on the north and to purchase the Toledo & Ottawa Beach Ry. on the south, forming a complete line from Detroit, Mich., to Toledo, O.

GAINESVILLE & GULF.—We are informed that the surveys have been made, the capital secured and all of the right of way practically secured for the proposed extension of this line from Sampson City to Gainesville, Fla., 21 miles. About five miles have been graded, ties laid for 3½ miles, and iron laid on two miles. S. J. Edwards & Co. are the contractors. V. J. Herlong, Pres. and Gen. Mgr.; H. C. McCrary, Ch. Engr., both of Gainesville, Fla.

GREENBRIER.—Surveys are about to be made, according to official reports, for this projected line from White Sulphur Springs, W. Va., to the coal and lumber district at the fork of the Greenbrier River, about 90 miles. J. M. Gill, Huntington, W. Va., is interested.

GURLEY & PAINT ROCK VALLEY.—Reports from Huntsville, Ala., state that Major E. C. Gordon and others are promoting this proposed line from Gurley, Ala., to Winchester, Tenn. Several miles were graded some years ago, but no track laid for want of capital.

HICKMAN & TIPTONVILLE.—Incorporated in Tennessee, April 11, with $100,000 capital stock, to build a levee from Hickman to the Highlands of Lake county, 20 miles, and a railway from Hickman to Tiptonville, Tenn., 25 miles. J. C. Harris and J. W. Chambers are incorporators.

MARBLEHEAD, PORT CLINTON & SOUTHERN.—Mr. L. Allendorf, Sandusky, O., informs us that this company, whose incorporation was noted in our issue of April 6, has just commenced preliminary work for a projected steam railway from Marblehead to Tiffin, via Port Clinton and Fremont, O., 40 miles.

MARLBORO, MARION & HORRY.—R. L. Freeman, Surveyor, Bennettsville, S. C., informs us the preliminary surveys are being made and the right of way being obtained for this projected railway from Bennettsville southeast to Port Harrelson, via Blenheim, Drake and Marion, S. C., 80 miles. The capital has not yet been secured and no arrangements for construction made. The route is level and construction will be comparatively easy. A. J. Matheson, Pres., Blenheim, S. C.

MARSHALLTOWN & DAKOTA.—Construction will begin in June, according to official reports, on this extension of the Iowa Central Ry. from Story City to Sibley, via Fraser, Gowrie, Manson, Pocahontas and Laurens, Ia., 145 miles. Surveys have been made between Sibley and Gowrie. Hamilton Browne, Pres., Boone, Ia.

NATCHEZ, COLUMBIA & MOBILE.—We are informed that this railway is projected to run from Saulsbury to Columbia, via Tilton and Pearl River, Miss., 45 miles. Grading and track-laying to Pearl River, 11½ miles, are under way. C. S. Butterfield, Gen. Mgr., Norfield, Miss.; W. H. Knowlton, Ch. Engr., Minneapolis, Minn.

NORWAY.—U. S. Consul Victor Nelson, Bergen, Norway, reports that the Norway Government has projected a large extension of its railway system, requiring the expenditure of about $3,000,000 a year for four years. A large amount of railroad supplies will be required. The project covers the extension of ten different lines, one of which is to be ready for operation in 1900, two in 1902, two in 1903, two in 1904 and three in 1907.

PHILADELPHIA & READING.—This company is said to have decided to lengthen some of its sidings on the main line and branches. About 100 men are at work on the Little Schuylkill branch double-tracking the line between Port Clinton and Drehersville, Pa. H. K. Nichols, Ch. Engr., Philadelphia, Pa.

PITTSBURG, LAKE ERIE & CHICAGO.—C. A. Judson, Ch. Engr., Sandusky, O., informs us that a preliminary line has been run from Sandusky to the Ohio River, and location made for 30 miles. Capital for construction has been secured, but it has not yet been decided when contracts will be let. The proposed route is from Sandusky, O., to Pittsburg, Pa., via Oberlin, Medina, Akron, Alliance and East Liverpool, O., 170 miles. John McKelvey, Pres., Sandusky.

RACQUETTE LAKE.—This company has been granted permission by the State Railway Commission to build and operate a standard-gage railway from Clearwater Station, on the Mohawk & Malone R. R., to Racquette Lake, about 16 miles. This road is to be operated by compressed air power, to eliminate danger from fire.

SOUTHERN.—W. H. Wells, Ch. Engr., Washington, D. C., confirms the report that the Southern Ry. Co. is making surveys between Columbia, S .C., and Savannah, Ga., and states that several lines will be run. The company, however, is not ready yet to furnish detailed information.

TENNESSEE CENTRAL.—Naugle, Holcomb & Co., 355 Dearborn St., Chicago, Ill., are reported to have completed grading on this line from Monterey to Crossville, Tenn., 23 miles, and to be at work between Rockwood and Crossville, 24 miles. Most of the work has been sub-let to contractors in small sections. An official communication of some length may be found in our issue of Dec. 22, 1898. G. T. Bigelow, Ch. Engr., Rockwood, Tenn.

WASHINGTON, MIDLAND & SOUTHERN.—Incorporated in Washington, April 8, with $7,500,000 capital stock, to build a railway. E. W. Adrian and J. W. Morrison are incorporators. Principal place of business, Spokane, Wash.

WEST FORK & SOUTHERN.—Incorporated in West Virginia, with $2,000 capital stock, to build from Bartlett station, on the Monongahela River Ry., and extend up the Jack River to Bartlett Sulphur Springs. The incorporators are: John T. Jones and F. Y. McCann, of Clarksburg, W. Va.; J. M. Wilcox and Clyde Hawkins, Parkersburg, W. Va.

WEST VIRGINIA & PITTSBURG.—This company will build five bridges and one tunnel on its extension from Camden-on-Cauley, W. Va., to the Cherry River, which is now under construction. The average length of the bridges is 280 ft., and the tunnel is 400 ft. long. All the bridges will be of steel, and the company is said to be ready to receive bids for the same. A. H. Kunst, Gen. Mgr., Wetson, W. Va.

WEST VIRGINIA & SOUTHERN.—This company, which at present operates a short line from Brownstown, W. Va., to the Boone county line, is said to be preparing to extend to Racine, thus penetrating into the Coal River basin, one of the richest coal and timber tracts in southern West Virginia. R. T. Herndon, Gen. Mgr., Charleston.

WICHITA & DENISON.—Incorporated in Oklahoma to build from Denison, Tex., to Wichita, Kan., via Grayson county, Ind. Ter., and Pottawatomie, Lincoln and Kay counties, Okla. The length of the line will be about 325 miles, and the estimated cost, $2,500,000. W. S. Search, Shawnee, Okla.; Frank S. Dimon, Chandler, Okla.; Warren Chantry, Perkins, Okla., are incorporators.

YORK SOUTHERN.—Sperry, Jones & Co., Bankers, of Baltimore, Md., are reported to have secured control of this railway, with the intention of extending from its southern terminus at Delta, Pa., to Baltimore, 42 miles, and north from York, Pa., 21 miles, to a connection with the Philadelphia & Reading R. R., thus giving this latter line an entrance into Baltimore. Chas. H. Jones, Jr., Pres., Baltimore.

STREET AND ELECTRIC RAILWAYS

BROCKTON, MASS.—The Brockton & South Shore St. Ry. Co. has been organized, with a capital stock of $75,000, with the intention of forming a corporation to construct and operate a street railway from Bedford and Central Sts., East Bridgewater, to Plymouth, via Halifax, Plympton and Kingston, and also from Kingston to Duxbury, 30 miles. Bradford Hamilton, Milton, Mass., and Quincy C. Bird, East Bridgewater, are directors.

KINGSTON, MASS.—The South Shore St. Ry. Co. has been organized, with a proposed capital stock of $50,000, to build from Kingston to Marshfield, via Duxbury, 14 miles. Willard Howland, Chelsea, Mass., and Lewis H. Keith, Kingston, Mass., are directors.

NORTHAMPTON, MASS.—We are informed that Butts & Crosby, Archs. and Engrs., Hartford, Conn., are preparing plans for the street railway power plant for the Northampton-Amherst electric line, requiring steam boilers, engines, generators, condensers, pumps, heaters and brick building and chimney.

WESTFIELD, MASS.—This town has granted a franchise to the Woronoco St. Ry. Co. to build an extension to the West Springfield line, which is projected to connect with the Springfield St. Ry., extended. Durkee, White & Towne are reported to have begun surveys. J. A. Lakin, Pres. of Woronoco St. Ry. Co., Westfield.

WEYMOUTH, MASS.—The Braintree & Weymouth St. Ry. is reported to have been sold to the Philadelphia Transit Co., Philadelphia, Pa., which recently bought the Rockland & Abington St. Ry. and the Hingham St. Ry.

WESTERLY, R. I.—Wm. C. Clarke, Pres. of the Sea View R. R. Co., Wakefield, R. I., informs us that surveys have been made, 80% of the right of way obtained and the capital secured for this electric railway proposed between North Kingston to Westerly, via Narragansett, South Kingston and Charlestown, 42 miles. Seven miles of line have been completed, and 7½ are under contract. It is expected to have the road from Narragansett Pier to Wickford in operation in May.

SOMERS, CONN.—A resolution has been reported favorably in the legislature incorporating the Somers & Enfield Electric Ry. Co., to have a capital stock of from $50,000 to $200,000. Geo. E. Keeney, J. A. Thompson and J. Wood are interested.

NYACK, N. Y.—B. F. Sweeten & Son, Camden, N. J., who hold the contract for constructing the proposed line of the Nyack Traction Co. are reported as about to begin construction. I. F. Walker & Son, General Contractors, Stephen Girard Bldg., Philadelphia, Pa., are interested.

SARATOGA SPRINGS, N. Y.—Final surveys have been begun for the extension of the Saratoga Traction Co.'s lines to Ballston Spa. The ties have been bought, and 60-ft., 58-lb. rails will be laid; about 300 trolley poles will be required, and the two-trolley wire will be used. R. E. Dunston, Mgr.

SYRACUSE, N. Y.—It is announced that the directors of the Syracuse Rapid Transit Co. have voted to spend about $350,000 in extensions and improvements to its system; also that the purchase of the Syracuse & East Side Ry. was authorized. C. L. Allen, Mgr.

WATERTOWN, N. Y.—The Black River Traction Co. is reported to have awarded a contract to Streeter & Makepeace, Watertown, for furnishing about 7,000 ties and 400 poles for the extension from Dexter to Brownville. The Pennsylvania Steel Co. will furnish the rails, switches and other steel equipment, and the John A. Roebling Sons' Co., of Trenton, N. J., will supply the trolley wire.

WASHINGTON, D. C.—The work of installing the new underground electric system on the U St. line of the Capital Traction Co., about two miles of double track, is now under way.——Drip-bars and conductor rails are being placed on the Columbia Cable line, preparatory to installing the underground electric system.——E. Saxton has been given the contract for all the street work of the Anacostia and Belt lines, which are to be changed to the underground electric. The contract for the rails has been let to the Wharton Co., Philadelphia, material to be on hand by June 15. The contract for the cast-iron work, including traps, conduit yokes and accessories, was let to Davis & Thomas, Catasaqua, Pa., at about $100,000. F. L. Hart, Ch. Engr., 11th St. and Florida Ave., N. W.

WHEELING, W. VA.—A new company, to be called the People's Ry. Co., has applied to the council, through John J. Coniff, Atty., for a franchise to build a street railway from the northern part of this city to Benwood.

CARROLLTON, KY.—M. L. Down, Secy., informs us that contracts will be let about June 1 for constructing the proposed electric railway of the Carrollton Electric R. R. & Bridge Co., from Milton to Owenton, via Prestonville, Carrollton and Worthville, 40 miles. Surveys have been made, the right of way obtained and $50,000 subscribed. Myron I. Barker, Pres.; F. A. Wate, Ch. Engr., both of CarroHton.

CHILLICOTHE, O.—John C. Entrekin, Chillicothe; O. M. Howser, Clarksburg, O., and W. C. Bostwick, Mount Sterling, O., are said to be incorporators of the Chillicothe, Mount Sterling & Columbus Electric Ry., Lighting & Power Co., which proposes to build from this city to Clarksburg, and thence to New Holland and Mount Sterling, connecting there with a line to Columbus.

LANCASTER, O.—It is reported that the Lancaster Assembly & Camp Meeting Association is considering the advisability of constructing an electric line to the camp grounds; estimated cost, $20,000. J. P. Curtis, Zanesville, O., is said to be interested.

INDIANAPOLIS, IND.—A contract has been signed by this city and the Indianapolis St. Ry. Co. whereby the company agrees to build a new street railway system. H. P. Wasson, Pres.

CORYDON, IND.—William Rathrock, White Cloud, Ind., informs us that he is interested in the construction of a 13-mile electric line from Corydon to Leavenworth, via White Cloud and Wyandotte, and that he will donate a water power for generating electricity to any capitalist or company that will build over this route, which passes through a good farming company to the Wyandotte Cave. E. B. Coolman, Ch. Engr., New Albany, Ind.

JACKSON, MICH.—H. C. Smith, Pres. of Jackson & Adrian Electric Ry. Co., Adrian, informs us that surveys have been made and rights of way and franchises obtained for this projected 40-mile line from Adrian to Jackson, via Pentecost, Springville, Sand Lake, Brooklyn and Michigan Center. Contracts will be let as soon as financial arrangements have been completed. Leon Decker, Ch. Engr., Adrian.

PEORIA, ILL.—We are informed that the surveys have been completed for this line to run from Peoria to Pekin, via Bartonville, Asylum and Hollis, 12 miles. Most of the contracts have been let, as follows: Schultz Bridge Works, Pittsburg, for the superstructure of bridges; Willard & Cornwall, Louisville, substructure of bridges; C. C. Gilman, Marshalltown, grading. All sub-contractors are under L. E. Myers, Peoria, who has the bulk contract for all construction and equipment. T. J. Miller, Pres.; N. D. Monsarrat, Ch. Engr., Peoria.

KENOSHA, WIS.—The council granted a franchise to the Milwaukee, Racine & Kenosha Electric Ry. Co., April 11, for constructing an electric line in Kenosha.

WAUPACA, WIS.—Irving P. Lord, Pres. of Waupaca Electric Light & Railway Co., Waupaca Co., Waupaca, informs us that contracts will soon be let for constructing five miles of electric line from Waupaca to Chain O' Lakes, via Wisconsin Veterans' Home. The capital stock is $75,000, and the bonded indebtedness $42,000 at 6%, about one-half of which has been placed; the balance is in the market, and will be used to purchase materials and equipment.

STILLWATER, MINN.—Bids are asked by the Twin City Rapid Transit Co., Minneapolis, until April 20, for grading, masonry and bridge work on about eight miles of electric line and sidings, between Stillwater and Wildwood, White Bear Lake.

KANSAS CITY, MO.—The East Side Electric Ry. Co. has increased its capital stock from $2,000 to $200,000. It is expected that three miles of double track will be in operation within three months. J. J. Helm, Pres., care of Ferd. Heim Brewing Co.——The Metropolitan St. Ry. Co. is reported to have let the contract for the overhead work for the new Grand Ave. track between Third and 13th Sts. to the Electrical Installation Co., Chicago. Other contracts are soon to be let. The American Street Railway Construction Co. is said to have about 150 men at work rebuilding the track of the 5th St. line.

CORSICANA, TEX.—W. G. Baker, Corsicana, and E. N. Cullom, of Alabama, have applied for a franchise to build a street railway in this city.

FORT WORTH, TEX.—J. E. Martin is said to be at the head of a company which contemplates the erection of another street car line in this city.

ELECTRIC LIGHT AND POWER.

BANGOR, ME.—It is stated that a plant is to be installed this summer at the pumping station; estimated cost, about $25,000.

ELLSWORTH, ME.—The Ellsworth Illuminating Co. has made a proposition to furnish the city with 19 2,000-c. p. arc lights. A new plant, it is stated, will be built.

LIVERMORE FALLS, ME.—It is stated that the Livermore Falls Light & Power Co. will soon let contracts for constructing its plant to utilize power from the Rockomeka Falls in the Androscoggin River at Livermore Falls. Capital stock, $100,000. Edwin Riley, Pres.; J. H. Maxwell, Treas. and Clk.

SOUTH NORRIDGEWOCK, ME.—W. M. Ayer, Supt. Somerset Traction Co., writes us that nothing definite has been done towards building a power plant about three miles from here, reported in our issue of last week.

FAIRHAVEN, CONN.—J. H. Howland, Chn. Selectmen, writes us that nothing has yet been done regarding a plant, but it is likely that the committee will report at the next meeting. At present the town is lighted by the New Bedford Gas & Edison Light Co.

STONINGTON, CONN.—The Mystic Gas & Electric Light Co. has been awarded a contract for lighting the borough streets with electricity.

WORCESTER, MASS.—Bids are asked by the county commissioners until April 25 for electric light fixtures, etc., for the county court house. Andrews, Jacques & Rantoul, Archs., 8 Beacon St., Boston.

AMSTERDAM, N. Y.—The council, it is stated, proposes to build a municipal plant.

LARCHMONT, N. Y.—It is stated that the Larchmont Electric Light Co. has filed a certificate of the increase of its capital stock from $15,000 to $100,000. The certificate further shows that the whole amount of debts and liabilities of the company is $100,000.

SENECA FALLS, N. Y.—Press reports state as follows: The Seneca Light & Power Co.'s plant was sold April 8 at foreclosure sale in the interest of bondholders. The Old Colony Trust Co., Boston, held a mortgage amounting to $90,000 on the plant. The only bidder was Jas. Van Voost, Schenectady, representing the General Electric Light Co., who bought it for $10,000.

WATERTOWN, N. Y.—Frank A. Hinds, Engr., Flower Bldg., informs us that the bids received April 13 for excavating for the proposed hydraulic canal for the St. Regis Paper Co. were rejected, and the contract awarded at private terms at a lower price. The canal is to be 4,000 ft. in length, and the specifications called for the excavation of about 275,000 cu. yds. of earth and rock. The bids were as follows:

Dyer & Huntington, Buffalo	$120,350
Belden & Seely, Syracuse	125,172
Dunfee, Taylor & Co., Syracuse	127,806
G. M. & C. V. Busch, Buffalo	128,146
Warren-Scharf Co., New York	131,984
Cogan Bros. & Forschner, Boston	140,755
Monty, Higby & Co., Sandy Hill, N. Y.	143,742
Walter Bradley & Co., Oswego	146,482
F. H. Clement & Co., Kittaning	159,552
J. & M. O'Connor, Chaumont	160,468
Rexford Bros., New York	169,527
O'Brien & Hoolihan, Syracuse	170,784
D. F. Minnehan, Orange, N. J.	186,603
Geckwith & Quackenbush, Herkimer	210,440
McDonough & Cunningham, Troy	222,391

SOUTH AMBOY, N. J.—Bids are asked until April 25 for electric and gas lighting for five years. J. F. Fulton, Borough Clk.; E. E. Haines, Chn. Com.

SWEDESBORO, N. J.—H. W. Ridgway, Secy., writes us that J. F. Buchanan & Co., Philadelphia, have completed the original plant, and have now received another contract for extensions, which is soon to be completed.

WESTFIELD, N. J.—C. W. Harden, Township Treas., writes us that there are no prospects of anything being done at present in regard to a plant.

ESPLEN, PA.—The McKees Rocks Electric Light Co. has submitted a proposition for lighting the town.

LEBANON, PA.—Bids are asked until May 15 for furnishing electric lights from June 1. Bids are to be contingent upon a contract from June 1, 1899, to Jan. 1, 1900; also for a period of five and ten years, respectively, beginning Jan. 1, 1900. Bids from Jan. 1 shall be based upon furnishing 125 lights or more. A. H. Biever, J. H. Cilley, H. O. Nutting, Police Com.

NANTICOKE, PA.—Bids are asked until April 25 for furnishing 60 or more 2,000-c. p. arc and 30 25-c. p. incandescent lights for one, two, three or five years. The present contract expires May 1. C. L. Fairchild, Secy.

PHILADELPHIA, PA.—Local papers state that a syndicate has been formed and property purchased on the Old York Road, at Washington Lane, near Jenkintown Station. It is proposed to develop the same into a suburb. The syndicate will lay out avenues, build sewers, waterworks, electric plants and divide the land into building

lots and have suburban residences erected thereon. The movement is headed by Dr. Wharton Sinkler, Thos. B. Harper, J. W. Hunter, Barney & Co., and Beauveau Borie. The property cost $250,000.

SCRANTON, PA.—The question of building a municipal plant is being considered; estimated cost, $140,000.

WESTCHESTER, PA.—Bids were asked until April 19 for erecting a power house, brick stack and underground corridor connecting county home with the new hospital. J. Preston Thomas, Dir. of the Poor.

WILKES-BARRE, PA.—J. B. Russell writes us that the Lackawanna Valley Electric Light & Power Supply Co. will not build a new plant. It has leased the Carbondale Electric Co.'s plant, which it will improve and extend.

WILKES-BARRE, PA.—Bids are asked by the secretary, 18 North Franklin St., until 9 a. m., April 21, for erecting a plant for the new asylum buildings at the retreat of the Central Poor House. McCormick & French, Archs., Laurie Bldg.

NORFOLK, VA.—It is stated that the following bids were received by the navy department, Washington, for extending the electric plant at the Norfolk Navy Yard, (1) being for the entire work, (2) for the boilers, feed pumps, feed water heater, piping in boiler room and main steam pipe to engine room installed ready for operation, (3) for engines, dynamos, switchboard, condensers, condenser pumps, separators, engine room piping and wiring, connected ready for operation; (4) for the exterior wiring and arc lighting: Kingsbury, Samuel & Co., Baltimore, (2) $7,982, (3) $16,957, (4) $16,282; Southern Electric Co., Baltimore, (2) $7,732, (3) Erie & Ball $17,122, Buckeye $16,980, Harrisburg 4-valve $17,677; (4) $16,650, (3) Triumph generators, Erie & Ball engines, $16,232; Harrisburg engines, $16,437; Westinghouse Electric & Mfg. Co., Pittsburg, (3) $18,675, (2 and 3) $28,150, Ball & Wood; John H. Finnery, Washington, (3) $18,717, Harrisburg 4-valve; Crook, Horner & Co., Baltimore, (2) $7,532, Babcock & Wilcox boilers; McCay Engineering Co., Baltimore, (1) Ball & Wood engines, $45,065; Babcock boilers, $42,847; Harrisburg engines, $43,429; Keller, Pike & Co., Philadelphia, (1)$46,200; (4) $22,800, Harrisburg engines; J. F. Buchanan & Co., Philadelphia, (1) $45,555, McCuen engines, Harrisburg 4-valve or Ball & Wood, add $1,000; (2) $8,888, (3 and 4) $18,888 each; Crocker-Wheeler Co., New York, (3) $15,792, $6,358 or $18,103; New York Electric Equipment Co., New York, (4) $22,228; Smith-Courtney Co., Richmond, Va., (4) $14,896; Thresher Electric Co., Dayton, O., (3) Harrisburg, $18,238; Ball & Wood, $20,525; (2 and 3) Harrisburg, $24,213; (2 and 3) Ball & Wood, $26,500; Commercial Construction Co., New York, (4) $24,614; Aultman & Taylor Machinery Co., Mansfield, O., (2) $6,889.

MOUNDSVILLE, W. VA.—Bids are asked until May 9 for furnishing the materials for installing a plant at the West Virginia penitentiary; estimated cost, about $6,000. There will be wanted 1,400 16-c. p. incandescent and 10 arc lights. E. E. Reese, Elec. Engr.; S. A. Hawk, Warden; J. L. Laughlin, Secy Bd. Dir.

WHEELING, W. VA.—S. W. Harper, Pres. Consumers' Electrical Co., writes us that bids for constructing the plant to cost $100,000 will be received as soon as possible. It is not yet definitely decided where to locate the plant.

FAYETTEVILLE, N. C.—This place is reported to have voted to issue $15,000 in bonds for a plant.

CARTERSVILLE, GA.—Wm. H. Milner, Chn. Com., writes us that the committee is investigating plans for a plant.

WASHINGTON, GA.—This city is reported to have decided to put in a plant, water-works, etc., at a cost of $30,000.

ST. AUGUSTINE, FLA.—P. S. Arnau, Cy. Clk., writes us that the plant will be operated in connection with the water-works. It is not known when work will be begun.

FLORENCE, ALA.—Bids are asked until May 2 for furnishing 50 2,000-c. p. arc lights for five or ten years. J. B. Weakley, Jr., Mayor.

OXFORD, MISS.—We are informed that this city is negotiating for a plant and sewerage. W. B. Cowan, Mayor.

HARRODSBURG, KY.—The subject of building a plant is being investigated, according to reports.

DAYTON, O.—F. M. Turner, Cy. Engr., writes us that the council has voted against a municipal plant. Only one bid was received April 10 for 300 arc lights for five years, at $89 a light a year, it being submitted by the Dayton Electric Light Co.

FINDLAY, O.—It is stated that the Hancock Light & Power Co., which has the contract for street lighting, is about to absorb the Marvin Electric Light Co., which has a plant for private service.

PAINESVILLE, O.—Geo. H. Burrows, Cleveland, O., has asked for a franchise for a lighting and heating plant.

ST. PARIS, O.—A. C. Bolinger, Mayor, writes us that the contract for furnishing the machinery for the plant, to cost $10,000, will be let as soon as the bonds are sold, the date for which was set for April 19. Hobart Electrical Co., Engrs., Troy, O.

DILLSBORO, IND.—Robt. A. Chance, Pres. Council, writes us that nothing has been done in regard to securing means to put in a plant, since the people voted against the project.

EVANSVILLE, IND.—Frank B. Rae, Fort Dearborn Bldg., Chicago, has submitted a report for a municipal plant. It is estimated that the city will require about 369 arc lights.

WINCHESTER, IND.—Bids are asked until May 3 for furnishing the materials and for constructing a plant and water-works for the Winchester Water & Light Co., as described in our advertising columns. D. W. Mead, Consult. Engr., 605 1st National Bank Bldg., Chicago.

BAD AXE, MICH.—The council has decided to purchase the plant of the Bad Axe Electric Light Co. for $8,500.

WHITE CLOUD, MICH.—It is stated that the question of issuing bonds for a plant is being considered.

WILLIAMSBURG, IA.—Mayor Hull writes us that it has not yet been decided what system will be put in. The plant is to have a capacity for 1,000 16-c. p. incandescent lights, and to cost $7,000.

CHICAGO, ILL.—Local press reports state as follows: City Electrician Ellicott is looking for a location for the new $80,000 electric-light plant the city is going to erect in the vicinity of Halsted and 60th Sts. The plans have been drawn and part of the machinery has been purchased. The plant will supply lights to lamps for which the city has been purchasing power. These lights cost $107 a year, while the city operated its own lights last year at a cost of $68.52. The plant will be fitted at once with power for 500 arc lights, though its capacity will be twice that amount. The 14th St. station will be abandoned after the new plant is established.

GALESBURG, ILL.—Press reports state as follows: The purchase of the electric light and gas company by a Portland, Me., syndicate, has led the Galesburg Electric Motor & Power Co. to propose building another lighting plant here in competition with the one of the Portland syndicate. It has developed that the syndicate paid about $300,000 for its plant, and that it contemplates bonding it for a large sum. The Portland syndicate proposes to spend $60,000 in improving the old plant.

PEARL CITY, ILL.—J. J. Freas, Village Clk., writes us that the electric light question has been dropped for the present.

SPRINGFIELD, ILL.—The legislature has passed a bill authorizing an appropriation of $20,000 for a plant for the state house and executive mansion.

AUSTIN, MINN.—The council is reported to have voted to put in a plant.

MANKATO, MINN.—Mayor Pfau has signed the ordinance granting a 20-year franchise for a plant.

SLAYTON, MINN.—Thos. Lowe, Mayor, writes us that nothing has yet been done towards securing a plant.

CENTRAL CITY, NEB.—The mayor-elect writes us that the question of building a plant will probably be considered during the ensuing term of the council. The city wants to secure information as to cost, etc., on a plant of 6 to 12 arc and 500 to 1,000 incandescent lights. The plant may or may not be a municipal one.

KANSAS CITY, MO.—Bids are asked until May 2 for installing a plant in the post office building. H. A. Taylor, Asst. Secy. Treasury Dept., Washington.

MAYVILLE, N. DAK.—Bids are asked until May 2 for furnishing the materials and for building a plant and water-works. The bids received April 5 were rejected. Plans may be seen at W. I. Gray & Co., Engrs., Sykes Block, Minneapolis, Minn., or J. Budler, 175 West Washington St., Chicago, Ill.; Sam'l Toyerson, Cy. Audr.

HURON, S. DAK.—The mayor writes us that there are no prospects at present of the city appropriating money for a plant.

BUTTE, MONT.—The Silver Bow Station of the Butte General Electric Light Co. was burned April 5; reported loss, about $50,000.

PORTLAND, ORE.—H. W. Corbett, Chn. Water Com., writes us that the city has contracted with the Portland Electric Co., to light the streets for two years, at $53,000 a year, a reduction of $31,000 a year, it having formerly paid the same company $84,000 a year.

HEALDSBURG, CAL.—The $80,000 bonds voted a year ago for municipal plant and water-works have been declared legal, and Healdsburg may now erect its own plant.

REDWOOD CITY, CAL.—An election will be held May 20 to vote on the question of enlarging the plant at a cost of $4,185.

SACRAMENTO, CAL.—The Sacramento Electric, Gas & Ry. Co. has made a contract for 30 years with the Yuba Electric Power Co. for the exclusive use of 5,000 HP. Deliveries are to commence Aug. 1. The plant of the Yuba company will be improved. The power station is to be built entirely of stone, so that its aggregate capacity can be brought up to 15,000 HP. A reservoir is to be located two miles back of the power station, which will have a capacity of 100,000,000 cu. ft. This will be connected with the forebay of the power station by two miles of pipe. John Martin, Pres.

SAN FRANCISCO, CAL.—Chas. C. Moore & Co., San Francisco, are reported as preparing plans for the plant for the Independent Electric Light & Power Co. Contracts for the machinery will soon be let and the work begun. Hunt & Hasson, Consult. Engrs., 310 Pine St.; Claus Spreckels, Pres.

PALO ALTO, CAL.—C. E. Moore, Consult. Engr., Santa Clara, informs us that the following bids were received April 8 for furnishing the machinery, etc., for a plant: Building, M. P. Madison, $1,035; Downing & Laumeister, $1,191. Electrical equipment, General Electric Co., $6,708; Westinghouse Electrical Mfg. Co., $7,985. Line construction, General Electric Co., $1,285; J. W. Chute, San Jose, $1,195. Power plant, Henshaw, Bulkle & Co., $3,180; Tracy Engine Co., $3,990, $3,289, $3,772, $3,764, $2,875; Parke & Lacy, $4,929. Power plant of three 30-HP. Diesel motors, Chas. C. Moore & Co., $8,950; Parke & Lacy Co., $9,000. The Diesel motor will guarantee, using California crude oil, not more than 80 pints per 100 HP. hours, running at full rated load, and 90 pints on half load.

	Poles.			
	45 ft.	35 ft.	40 ft.	30 ft.
F. A. Hihn & Co.	$13.47	$6.72	$9.46	$3.58
Union Lumber Co.	10.10	5.95	8.15	3.85
Parkinson Lumber Co.	9.98	5.15	8.00	3.80

TUCSON, ARIZ.—Judge Wright is urging the city to construct a plant to cost $50,000.

LEWISTON, IDAHO.—It is stated that the Lewiston Water & Power Co. is making preparations to put in a power plant at the foot of its flume on Asotin Creek. The power will be used for flouring mills and other manufacturing plants.

SALT LAKE CITY, UTAH.—R. Young, it is stated, proposes to build, in connection with some houses he is about to erect, an electric light and heating plant.

TORONTO, ONT.—Bids are asked until April 24 for furnishing and installing a plant, wiring, etc., in the new municipal buildings. E. J. Lennox, Arch., King and Yonge Sts.; Jno. Shaw, Mayor.

BARRIE, ONT.—Bids are asked until about May 1 for furnishing the machinery and for constructing an extension to the city plant. E. Donnell, Town Clk. and Treas., writes us that there will be wanted a new 125-HP. engine, two new boilers, extension of line through Allandale, Ward and some of the outlying suburbs. The cost will be between $7,000 and $10,000. An addition of 20 8,000-c. p. arc and 1,000 16-c. p. incandescent lights will be wanted. R. J. Parke, Engr., 310 Temple Bldg., Toronto, Ont.; M. J. Frawley, Chn. Com.

NAPLES, ITALY.—The La Societa Meridionale de Elettricita has been formed with a capital stock of $1,000,000, to build a plant to utilize the water power of the Tusciano River. It is reported that a contract for $200,000 worth of machinery will soon be let.

PEKIN, CHINA.—It is stated that the Siemens & Halske Electric Co., Berlin, Germany, and Monadnock Block, Chicago, Ill., has obtained, through its Yokohoma agents, a concession for the construction of an electric plant at Pekin. Recently the same firm secured concessions from the Chinese government for the electric tramway here.

BRIDGES.

CAMBRIDGE, MASS.—The Middlesex county commissioners have formally approved plans for a new steel bridge at the Massachusetts Ave. crossing of the Fitchburg R. R., North Cambridge.

CAMBRIDGE, MASS.—Bids are asked by the Cambridge bridge commission until April 25 for drains and piers for a temporary pile bridge over the Charles River.

TIVERTON, MASS.—It is reported that engineers of the N. Y., N. H. & H. R. R. C. are preparing to construct a new bridge with a 100-ft. draw, over the Seaconnet River.

BINGHAMTON, N. Y.—Bids are asked until May 9 for the sub and superstructure of a bridge over the Susquehanna River, at Tompkins St., as stated in our advertising columns. S. D. Kane, Cy. Clk.

BUFFALO, N. Y.—The state engineer has decided against a bascule bridge over the canal at Ferry St., and has recommended the construction of a swing bridge, to cost $18,000.

BUFFALO, N. Y.—The grade crossing commission received the following bids April 11 for the substructure of the Elk St. and Abbott Road viaduct. The first bid where two are given, includes the labor law clause: C. Smith, $116,995; W. F. Boysen, $114,780; B. P. Smith, $128,713 and $126,849; A. P. Kehr, $118,465 and $118,034; Williams, McNaughton & Bapst, $124,968 and $123,914; Harrer & Mitchell, $126,322; Chas. Mosier $127,040; B. I. Crooker, $132,629; Brown, Stabell & Griffiths, $122,787; Donnelly Contracting Co., $128,037.

SCHENECTADY, N. Y.—The N. Y. C. & H. R. R. R. Co. and the Delaware & Hudson R. R. Co. are having plans prepared for an elevated foot bridge over the tracks at State St.

STILES STATION, N. Y.—The Syracuse, Lakeside & Baldwinsville Ry. Co. has approved plans for its bridge over the tracks of the D., L. & W. R. R. The structure will be of steel, 118 ft. long, on steel abutments, 21 ft. clear, and the grade approaches 500 and 600 ft. long, respectively.

ASBURY PARK, N. J.—The board of freeholders, at Freehold, has been asked to appropriate about $30,000 for a new bridge over Sunset Lake. S. W. Kirkbride, Councilman.

PITTSBURG, PA.—Bids are asked until 2 p. m., April 21, for reconstructing the Main St. bridge across Sawmill Run. Edward M. Bigelow, Dir. Dept. Pub. Wks.

CONNELLSVILLE, PA.—An injunction has been dissolved by the supreme court, which allows the Youghiogheny Bridge Co. to construct a bridge over the Baltimore & Ohio R. R. between New Haven and Connellsville, for which the contract has been awarded to the Pittsburg Bridge Co., at a cost of about $50,000.

READING, PA.—The county commissioners propose to construct a new bridge over Swamp Creek.

MACON, GA.—A contract has been awarded to the Brackett Bridge Co., Cincinnati, O., for an iron bridge over the Ocmulgee River at Fifth St.

WESTPOINT, GA.—Grant Wilkins, Atlanta, has been awarded a contract for four steel bridges on the Western Ry. of Alabama, between Westpoint and Montgomery, Ala.

XENIA, O.—The county commissioners have received the lowest bid from the Oregonia Bridge Co., Oregonia, O., at $3,398, for a 170-ft. bridge over the river.

DAYTON, TENN.—The county court has ordered the construction of a steel bridge over Little Richland Creek, to cost about $2,000.

JONESBORO, TENN.—A resolution was passed by the county court April 5 to appropriate about $4,000 for a bridge over Watauga River at Dr. Vaults Ford. The citizens have subscribed $1,200 and given the right of way.

CINCINNATI, O.—Bids are asked until May 6 for the purchase of $14,000 of 5% bridge bonds, according to reports. Geo. C. Zimmerman, Clk. County Comrs.

COLUMBUS, O.—The county commissioners have awarded contracts for bridge work as follows: Eberly & Cook, reflooring the Dublin bridge, $1,195, and constructing the Indian Run bridge, $1,861; Zubrod & Earl, Latter Hill improvement, $3,257; Broad St. bridge over Big Walnut Creek, New Columbus Bridge Co., superstructure, $14,190.

BIRMINGHAM, O.—Bids are asked by the county commissioners, at Sandusky, until May 8 for the masonry and grading, and until May 9 for the superstructure of a bridge 470 ft. long, to cost $16,000, according to reports.

FOUNTAIN CITY, IND.—The Grand Rapids & Indiana R. R. Co. has awarded a contract to the Detroit Bridge & Iron Works for constructing two iron bridges, one at this place, a 165-ft. span, and at Geneva, 90 ft., at $15,000 each.

BAY CITY, MICH.—Bids are asked until April 22 for reconstructing the swing span, at Cass Ave., according to reports. J .H. Blomshield, Engr.

PLAINWELL, MICH.—The Grand Rapids & Indiana R. R. Co. has decided to construct a bridge over the Kalamazoo River, at a cost of about $20,000. The Detroit Bridge & Iron Works has the contract for the superstructure, which consists of two 100 ft. spans, and Herman W. Taft for the stone masonry substructure.

LEAF RIVER, ILL.—The county commissioners, at Oregon, have awarded contracts for the iron work of three bridges to the Clinton Bridge & Iron Works, Clinton, Ia.; and for the stone work, to Myers & Son, Oregon.

SENECA, ILL.—Bids are asked until April 29 for reflooring, adjusting and painting the 612-ft. bridge across the Illinois River, as described in our advertising columns. Philip Timmins, Clk. of Village Bd.

ST. PAUL, MINN.—The city clerk has been authorized to ask bids for the substructure of the new portion of the Wabasha St. bridge.

BETHANY, MO.—Bids are asked until May 1 for a 100-ft. steel bridge, including 78 ft. of approach; estimated cost, $1,400; also for a 30-ft. steel bridge and a 30-ft. beam bridge. C. F. Snyder, County Surv.

KANSAS CITY, MO.—It is reported that the people of Lock Springs have raised $1,000 toward constructing a new bridge over the Grand River. The proposition will now be submitted to the county commissioners.

GLENDINE, MONT.—The county steel bridge over the Yellowstone River was carried away April 9 by the ice flow; cost, $25,000.

LIBBY, MONT.—Reports state that the Great Northern Ry. Line proposes to construct a bridge 758 ft. long, consisting of three steel spans of 64, 225 and 32 ft., over the Flathead River.

SPOKANE, WASH.—The city has awarded a contract to the San Francisco Bridge Co., at $3,750, for a new bridge at Washington St.

TORONTO, ONT.—Bids are asked until April 24 for removing the Eastern Ave. bridge and for new concrete and stone abutments. John Shaw, Chn. Bd. of Control. ——Bids are asked until April 25 for two stone abutments for a steel bridge over the Humber River. Jas. McDougall, County Engr.

SOUTH MAITLAND, N. S.—The Engineering Contract Co., 71 Broadway, New York, has been awarded a contract for putting in six pneumatic caisson piers and two abutments for a new bridge over the Shubenacadie River, on the Midland R. R., at this place.

HONOLULU, H. I.—Bids are asked until May 15 for seven steel bridges. James A. King, Minister of the Interior.

BUILDINGS.

BETHEL, ME.—Bids are asked until April 22 for erecting a new school building 22 x 30 ft., at Northwest Bethel, to be completed by August 20. E. C. Bowler.

FALMOUTH FORESIDE, ME.—It is reported that the Yarmouth R. R. Co. will erect casinos and lodges in a park to be established at this place, at a total cost of $50,000. Frederick A. Thompson, Arch., 122 Exchange St., Portland, Me.

MONTPELIER, VT.—Chas. W. Bucknam, Burlington, Vt., has prepared plans and specifications for an annex to

the state house and submitted them to a committee composed of Kittredge Haskins, Brattleboro; C. W. Brownell, Burlington, and T. C. Phinney.

BROCKTON, MASS.—Bids are asked by the supervising architect, Washington, D. C., until May 8 for the heating and ventilating apparatus for the U. S. building in this city.

SOUTHBRIDGE, MASS.—This town has appropriated $23,000 for the construction of a new school building. Geo. L. Clemence, Arch., Worcester, Mass.

NEWPORT, R. I.—R. W. Curry, Newport, is reported to have received the contract for erecting the new city hall building at $72,050; Lynch & Sullivan for installing the heating and ventilating plant at $4,300; Scannevin & Potter for the electric wiring and gas piping at $1,085, and Joseph Haire for plumbing at $3,497.

BROOKLYN, N. Y.—Reports state that an addition will be erected to the Brooklyn Institute, to cost $600,000. McKim, Mead & White, Archs., 160 5th Ave.

BUFFALO, N. Y.—Plans are being prepared, according to reports, for a 4-story brick apartment building on South Division St., near Hickory St., for George H. Brydon, to cost about $40,000.

ELLIS ISLAND, N.Y.H.—Bids are asked by the supervising architect, Washington, D. C., until May 16 for the erection and completion, except heating, wiring, etc., of the kitchen and restaurant building, and the disinfection, bath-house and laundry building, at the U. S. Immigrant Station, Ellis Island, as stated in our advertising columns.

NEW YORK, N. Y.—Bids are asked by the department of correction, 148 East 20th St., until May 11 for the plumbing and drainage of the new city prison; two sureties, $70,000. Francis J. Lantry, Comr.——Bids are asked by the board of education, at 585 Broadway, until April 24 for heating and ventilating apparatus, Public School 98; also heating and ventilating apparatus and electric lighting plant, Public School 173, Borough of The Bronx; also for alterations, repairs, etc., to Public Schools 6, 10, 11, 13, 14, 15, 19, 25, 36, 53, 70, 76, 78, 79, 82 and 161, Borough of Manhattan.——Plans will be prepared by Clinton & Russell, 32 Nassau St., for an 18-story office building for the American Exchange National Bank at 128 Broadway.——The Society for Ethical Culture proposes to erect a new building on property recently bought at Central Park West, between 63d and 64th Sts. J. D. Lange, Pres. ——Plans have been filed by Jas. H. Cassidy, 1879 2d Ave., for four 6-story brick flat buildings on 11th St., near 8th Ave., to cost $200,000. L. F. J. Weiher, Jr., Arch.; by E. W. Kilpatrick, 50 West 67th St., for two 6-story brick flat buildings, on 85th St., near Riverside Drive, to cost $80,000. Fred. Jacobsen, Arch., 54 West 18th St.; by Salvadore La Grassa, 743 East 137th St., for a 7-story brick flat building at 118th St. and Manhattan Ave., to cost $100,000. Neville & Bagge, Archs., 217 West 125th St.; by Ehrenreich Bros., 48 East 74th St., for an 8-story brick flat building at 81st St. and Madison Ave., to cost $125,000. Louis Korn, Arch.; by R. A. Chesebrough, 1200 Madison Ave., for an 11-story brick and stone office building at State and Pearl Sts., to cost $500,000. Clinton & Russell, Archs., 32 Nassau St.; G. A. Fuller Co., Builders; by Daniel Pierce, 302 West 150th St., for ten 5-story brick flat and store buildings at 8th Ave. and 151st and 152d Sts., to cost $250,000. John C. Burne, Arch.; by Wm. Picken, 56 West 113th St., for seven 3-story brick dwellings on 137th St., near 7th Ave., to cost $154,000. John Hauser, Arch., 1441 3d Ave.; by J. & G. Fleischman, 7 West 112th St., for four 5-story brick flat and store buildings at 119th St. and 5th Ave., to cost $90,000. Geo. F. Pelham; by L. Kaufman, 35 Nassau St., for seven 6-story brick flat and store buildings at 10 to 22 Rutgers Place, to cost $175,000. Schneider & Herter, Archs., Bible House.

JERSEY CITY, N. J.—The following bids are stated to have been received April 10 for erecting complete a new building for the Free Library: Norcross Bros., 160 5th Ave., New York, $208,191; H. Probst, 1180 Broadway, New York, $214,500; John T. Rowland & Son, Jersey City, 17,118; P. J. Carlin & Co., Brooklyn, N. Y., $218,000; M. T. Connolly, Jersey City, $222,649; Robertson & Son, Jersey City, $224,498; Jewkes & Son, Jersey City, $224,-900; Alexander Whan, $228,995; Jos. B. Smith, $233,000.

MORRIS PLAINS, N. J.—Bids are asked until May 4 for erecting a south wing to the new hospital building at Morris Plains for the New Jersey State Hospital; also for constructing a tunnel or subway to connect the new building with the boiler house, with elevator shaft, sewer pipes, etc. Robert C. Walsh, Arch.; Geo. W. Howell, Engr., both of Morristown, N. J.

BLAIRSVILLE, PA.—Bids are asked by the Derry township school board until April 21 for building an addition to the Blairsville Intersection school building. J. W. Rhoads, Pres.

CARLISLE, PA.—Bids are asked until April 24 for the erection of an 8-room school building in this borough; estimated total cost, $35,000; deposit, $500. Walter Stuart, Pres. of School Bd.; D. R. Miller & Co., Archs., 219 Market St., Harrisburg, Pa.

EASTON, PA.—Bids are asked until April 27 for erecting fair buildings for the Northampton County Agricultural Society. J. J. Maus, Secy., Nazareth, Pa.

FRITZTOWN, PA.—Bids are asked until April 20 for erecting a new school building at this place. A. S. Steeley, Secy., Fritztown; Wm. A. Fink, Arch., 426 Franklin St., Reading, Pa.

PHILADELPHIA, PA.—It is announced that improvements will be made to the buildings of the German Hospital, to cost $75,000.

WILKINSBURG, PA.—E. Z. Peffer is stated to have received the contract for erecting a new brick and terra cotta building for the First Presbyterian Church at Wood St. and Wallace Ave., to cost complete $75,000.

WASHINGTON, D. C.—Bids are asked by the District Commissioners, until April 27 for constructing a hot-air or hot-blast steam heating apparatus, with mechanical ventilating apparatus for the Lovejoy school building.——Bids are asked until May 17 for constructing a dead house at the Washington Barracks, D. C. Address the Quartermaster.

BALTIMORE, MD.—It is reported that J. Wilson Leaking represents a company of local capitalists which expects to erect a 10-story family hotel building on property recently purchased at Cathedral and Preston Sts.——Plans have been prepared for an additional story to the workshop building at St. Mary's Industrial School. Baldwin & Pennington, Archs.

KEYSER, W. VA.—The E. J. Friedlock Mfg. & Building Co., Piedmont, W. Va., is reported to have been awarded the contract for erecting a new jail at Keyser, at $8,006, to be completed by Sept. 1.

RALEIGH, N. C.—Bids are asked by the supervising architect, Washington, D. C., until April 27 for a low pressure return circulation steam heating and ventilating apparatus for the U. S. building at Raleigh.

SPARTANBURG, S. C.—Bids are asked by the First Presbyterian Church until May 2 for erecting a new church building. A. H. Twitchell, Chn. of Bldg. Com.; Golucke & Stewart, Archs., Atlanta, Ga.

ATLANTA, GA.—Bids are asked until April 22 for erecting the central building of Morris Brown College, at the Boulevard and Houston St. Rev. Jas. M. Henderson, Pres.

PULASKI, TENN.—Bids are asked until April 20, according to reports, for remodeling the old jail building and erecting a 2-story brick jailor's residence. Address J. B. Stacey.

TRENTON, TENN.—Hugger & Winston, Brewton, Ala., have been awarded the contract for erecting a new court house for Gibson county, to cost about $30,000. W. Chamberlain & Co., Archs., Knoxville, Tenn.

CLEVELAND, O.—Plans are being prepared for a new $70,000 convent building for the St. Joseph's Convent. Chas. W. Hopkins, Arch., 50 Euclid Ave.

CLEVELAND, O.—A fire in this city April 15 destroyed the 6-story building occupied by Comey & Johnson, hatters, and the 7-story brick building occupied by Hart & Co., at Academy and Bank Sts.; estimated loss, $882,000.

NILES, O.—This city has voted to issue $40,000 in bonds for a new high school building.

WARREN, O.—The Warren school district has voted to issue $30,000 of school bonds.

RICHMOND, IND.—Bids are asked until April 27 for constructing a building for the Eastern Indiana Hospital at Easthaven. S. E. Smith, Supt., Easthaven, Richmond; John A. Hasecoster, Arch., Richmond.

CENTREVILLE, MICH.—At an election in St. Joseph county it was voted to raise $37,500 for erecting a new court house at Centreville.

CHICAGO, ILL.—The legislature of Illinois has voted to appropriate $100,000 for building an armory and parade ground on the Lake front for the Illinois National Guard. ——Plans are being prepared, according to reports, for a new church building, 125 × 100 ft., to be erected at Wrightwood and Pine Grove Aves., for the Second Church of Christ, Scientists, to cost $75,000. S. S. Beman, Arch. ——Plans have been prepared for a new building for the Third Church of Christ, Scientist, at Washington Boulevard and Leavitt St., to cost 580,000. H. M. G. Garden, Arch.——W. A. & A. E. Wells are reported to have received the contract for erecting the Cable Bldg. at Wabash Ave. and Jackson Boulevard, to cost $175,000.

DE PERE, WIS.—Plans have been accepted for the new 3-story high school building, 40 × 100 ft., with a wing 18 × 50 ft., to be erected in this city. Van Ryn & De Gelleke, Milwaukee, Wis.

KENOSHA, WIS.—Z. G. Simmons is stated to have offered to present Kenosha with a new city hall building, to cost about $25,000.

WHITEHALL, WIS.—Bids are asked until May 4 for erecting a new insane asylum for Trempealeau county, to cost about $50,000. O. E. Gibbs, Chn.; John Charles, Arch., Menomonie, Wis.

DES MOINES, IA.—Charles Weitz, Des Moines, has been awarded the contract for erecting the new 5-story Younker Bldg., 134 × 90 ft., at West 7tn and Walnut Sts., estimated to cost $100,000.

HARTLEY, IA.—Bids are asked until May 15 for erecting a brick church building for the Methodist Episcopal Church. D. A. McBurney, Pres. of Bd.; F. W. Kinney, Arch., Austin, Minn.

HALLOCK, MINN.—Bids are asked until May 9 for heating the court house of Kittson county.

ST. PAUL, MINN.—The following bids were received by the supervising architect, Washington, D. C., April 13, for an automatic temperature regulating apparatus for the public building in this city: Powers Regulator Co., Chicago, Ill., $3,875; time, 90 days. Johnson Electric Service Co., Milwaukee, Wis., $2,962, alternate, $2,669; time, 90 working days.——The following bids were received by the supervising architect April 13 for installing a low-pressure and exhaust steam heating mechanical ventilating apparatus in the U. S. building at St. Paul:

W. S. Mathieson, St. Paul, Minn., *120 days	$50,000
Gaylord & Eltapence, Binghamton, N.Y., 160 days	51,000
Edward Joy, Syracuse, N. Y., *160 days	60,250
W. F. Porter & Co., Minneapolis, 160 days	48,933
Aug. J. Archambo, Minneapolis, *200 days	49,990
Chas. B. Kruse Heating Co., Milwaukee, *160 days	50,970
Chafer & Becker, Cleveland, O., *160 days	56,971
Pond & Hasey Co., Minneapolis, 140 days	48,047
L. J. Mueller Furnace Co., Milwaukee, 160 days	49,386
George Morton, St. Paul, Minn	53,999
Borger Bros. & Co., Columbus, O., *160 days	60,447
Allan Black, St. Paul, Minn., 160 days	44,458

*Working days.

CROW CREEK, S. DAK.—Bids are asked by the Office of Indian Affairs, Washington, D. C., until May 12 for constructing one frame stable and brick warehouse and one frame laundry building at Crow Creek Agency. Jas. H. Stephens, U. S. Indian Agt., Crow Creek.

KANSAS CITY, MO.—The following bids were received by the supervising architect, Washington, D. C., April 10, for the interior finish, vault doors and linings, approaches, etc., for the U. S. building in Kansas City: W. H. Ellis, Cincinnati, O., $202,550; J. A. McGonigle, Leavenworth, Kan., $189,436; Hennessy & Cox, St. Paul, Minn., $199,900; Butler & Ryan Co., St. Paul, Minn., $205,300; Dugan & Hayne, Kansas City, Mo., $121,974; L. L. Leach & Son, Chicago, Ill., $169,000; E. F. Gobel, Chicago, Ill., $204,668; Henry Shenk, Erie, Pa., $234,773; Angus & McLeod Co., Minneapolis, Minn., $209,435; Richardson & Burgess, Washington, D. C., $214,382; Charles McCaul, Philadelphia, Pa., $232,000.

LITTLE ROCK, ARK.—A bill has been passed by the State Legislature providing for the erection of a new capitol building on the site of the present penitentiary, to cost about $1,000,000.

MONTGOMERY, TEX.—Bids are asked until May 1 for erecting a 2-story steel fireproof vault, etc., for Montgomery county. M. S. Cooper, County Judge.

GRAND JUNCTION, COLO.—The bids received by the Office of Indian Affairs, April 12, for a new steam heating plant for the local school, have been rejected. P. J. Moran, 238 State St., Salt Lake City, Utah, was the lowest bidder at $1,647.

SAN FRANCISCO, CAL.—Bids are asked by the navy department until May 10 for the construction of a commandant's house and an officers' quarters for the U. S. naval training station on Yerba Buena Island, San Francisco. A. S. Crowinshield, Ch. of Bureau of Navigation.

SAN CARLOS, ARIZ.—Bids are asked by the Office of Indian Affairs, Washington, D. C., until May 8, for constructing two adobe dormitories, dining hall, school building, water and sewer and irrigation systems, gasoline gas plant, etc., at the San Carlos Agency. Capt. H. P. Ritzius, U. S. Indian Agt.

WATER-WORKS.

WARREN, ME.—Leon O. Norwood, Civil Engr., Rockland, Me., writes us that the Warren Water Co. will lay about 1¼ miles of 6 and 8-in. pipe as soon as the pipe can be secured. Pres. and Secy., F. A. Alden, Union, Me.; Treas., W. F. Wright, Warren.

ESSEX JUNCTION, VT.—The committee will soon submit a report regarding a water supply. It is proposed to either secure a supply from driven wells or from the river, in the latter case using filters; cost, $20,000.

WHITMAN, MASS.—An election will be held April 24 to vote on the question of obtaining a water supply from Silver Lake.

WILLIMANTIC, CONN.—The aldermen have voted to advertise for bids for furnishing a new pump at the works. Freeman C. Coffin, Engr., 53 State St., Boston, Mass.; Aldermen Taylor and Haggerty may be addressed.

ARCADE, N. Y.—G. N. Cowan writes us that the following have been awarded the contracts for the materials for the gravity works; Rennsaelaer Mfg. Co., Troy, N. Y., gates and hydrants; Lake Shore Foundry, Cleveland, O., pipe.

PEEKSKILL, N. Y.—Bids are asked by W. H. Clinton, Supt. Water-Wks., for furnishing about 2,800 ft. of 4 and 6-in cast-iron water pipe.

BORDON, N. Y.—The Seneca Springs Water Co. has been incorporated with a capital stock of $10,000, by Frank C. Hoffman, Chas. S. Coleman and J. C. Rose.

NEWARK, N. J.—Press report state that a contract has been let by the board of works for an auxiliary water supply from driven wells at Belleville. It provides for the periods of greatest consumption, in midsummer and midwinter. The contract price is $30,975, and the water is to be furnished next summer. The city counsel is also to draw up a contract with the East Jersey Water Co., by which the city will pay 4% interest on $800,000 for one year, the cost of a new water main to be built by the company from Little Falls, and to pay $36 a million gallons for any extra supply of water needed by the city before September, 1900, the city to agree to sell to the company after that date all its surplus water at the same price the company may charge to the city and until the water-works for Jersey City shall be completed. The period will be about four years. Mayor Seymour's signature will be necessary for this contract.

DARBY, PA.—An injunction restraining this city from sinking wells for a new water supply has been quashed. An artesian is now being sunk to a depth of 500 ft. by Geo. H. Orcott. Councilman C. H. Clarke may be addressed.

HAZLETON, PA.—Local papers state that the Hazleton Water Co. will soon begin extending its pipe line along Hartz Creek.

PHILADELPHIA, PA.—Ordinances have been passed to lay pipes in a number of streets.—The finance committee has authorized an appropriation of $25,000 for employing experts to examine the water supply, with a view to improving it. Wm. H. Baker, Clk.

PHILADELPHIA, PA.—Bids are soon to be asked for plans and specifications for the construction of a new pumping station with sedimentation basins and filtering beds, having a capacity of not less than 150,000,000 gallons a day, on the Delaware River, above Lardner's Point, within the city limits. Estimated cost, $600,000.

PUNXSUTAWNEY, PA.—An election will be held May 23 to vote on the question of issuing $35,000 in bonds for purchasing the works of the Punxsutawney Water Co.

WILMINGTON, DEL.—The water department has decided to build a water tower in Brandywine Park. Plans are being prepared by T. A. Leisen, Park Engr.

WASHINGTON, D. C.—Engineer Commissioner Beach has recommended that the contract for building the new middle service reservoir for the District of Columbia at Brightwood, be let to R. A. Malone, Lancaster, Pa., who bids as follows: Excavating 30,000 cu. yds., $12,000; 11,-000 sq. yds. of concrete work, $79,200; furnish 3,000 sq. ft. of Warsaw, N. Y., sandstone coping, $3,000; two gatehouses, $7,300; total, $101,500.

HAVRE DE GRACE, MD.—The Point Concord Water Co. has been incorporated, with a capital stock of $12,000, by Lawrence B. McCabe, Baltimore county; Dr. D. W. Hopkins, Havre de Grace, and others. The supply will be secured from the rockbed streams on the property of Mr. McCabe.

REIDSVILLE, N. C.—Bids are asked until May 2 for the purchase of $25,000 of 5% 30-year water bonds for the proposed works. C. N. Evans, Cy. Treas.

ATLANTA, GA.—W. C. Taylor, Secy. to Mayor, writes us that this city voted, April 15, against issuing $.10,000 in bonds for extending the water mains.—The city will lay a 6-in. main to the barracks at Fort McPherson.

BAINBRIDGE, GA.—B. Nussbaum, Cy. Clk., writes us that an election has been ordered to vote on the question of issuing $30,000 in bonds for extending the mains and for putting in standpipe, fire plugs, etc.

WASHINGTON, GA.—This place, it is reported, has voted to issue $30,000 in bonds for works, an electric plant and a sewerage system.

PRATT CITY, ALA.—P. M. McNeil, formerly Chn. Water Com., writes us that $25,000 in bonds for the proposed works will be sold inside of the next three months, and the works constructed during the summer. Address E. J. Hudnall, Mayor.

MEMPHIS, TENN.—Councilman Walsh is urging the council to erect an auxiliary water-works at a cost of about $400,000.

ELIZABETHTOWN, KY.—Walsh & Weidner, Chattanooga, Tenn., have been awarded the contract for furnishing and erecting a standpipe. R. L. Wintersmith, Mayor.

GALLATIN, TENN.—Bids are asked until May 15 for furnishing the materials and for constructing works, as described in our advertising columns. E. O. Buchanan, Secy.; Walter G. Kirkpatrick, Engr., Jackson, Miss.

COLLEGE HILL, O.—Bids are asked until May 1 for furnishing the materials and for constructing works to cost about $100,000. E. F. Layman, Engr., 32 E. Third St., Cincinnati; F. R. Strong, Village Clk.

GALLIPOLIS, O.—J. F. Mack, of Sandusky, trustee of the Ohio State Hospital for Epileptics, at Gallipolis, writes us that the contracts have been let for the works for the hospital.

DOYLESTOWN, O.—This place is reported to have recently voted against issuing $20,000 in bonds for works.

WELLSVILLE, O.—Bids are asked until May 15 for furnishing and laying about 205 tons of 12-in. water pipe and six tons of 8-in. pipe and castings. D. A. Davidson, Supt. Water-Wks. and Cy. Clk.

MICHIGAN CITY, IND.—The Lake Michigan Water Co. has been incorporated with a capital stock of $25,000, by Jno. H. Baker, Philip Zorn, Walter Vail, Abram R. Colborn, all of Michigan City. It is proposed to build works of 10,000,000 gallons capacity. A 30-in. steel intake 1½ miles long will be built into Lake Michigan.

WINCHESTER, IND.—Bids are asked by the Winchester Water & Light Co. until May 3 for furnishing the materials and for constructing works and a light plant, as described in our advertising columns.

PLAINWELL, MICH.—It is reported that the council will build new works.

AUSTIN, MINN.—Bids are asked by the city clerk until April 24 for laying water pipes from the works to the springs.

ELLSWORTH, WIS.—A. Combacher writes us that nothing will be done in regard to building works until after May 1.

PIERSON, IA.—We are informed that this place has voted to issue $3,000 in bonds for works, and that the council is now securing information.

WHITEFISH BAY, WIS.—It is stated that a company is being organized to build works and an electric plant.

LONETREE, IA.—It is stated that this place will vote, April 27, on the question of issuing bonds for works.

POMEROY, IA.—This place voted April 10 to issue bonds for works.

MINNEAPOLIS, MINN.—Bids are asked until April 28 for furnishing post jackets for hydrants, and also for 30 tons of pig lead. L. A. Lydiard, Cy. Clk.; G. W. Sublette, Cy. Engr.

ZUMBRO FALLS, MINN.—T. R. Watson, Village Recdr. writes us that it has been decided to delay the construction of works. In the meantime the town will lay aside 50% of the income for works.

DEADWOOD, S. DAK.—This city, it is stated, will soon vote on the question of municipal works.

ELKPOINT, S. DAK.—The mayor writes us that this place recently voted to issue $12,000 in bonds for works. Bids are wanted for the purchase of the bonds.

SIOUX CITY, S. DAK.—This place voted, April 4, against issuing $130,000 in bonds for municipal works.

SYRACUSE, NEB.—This place is reported to have voted against issuing bonds for extending the works and for an electric plant.

MARYVILLE, MO.—Press reports state that Maryville Water Co.'s works were sold at public vendue, April 13. A New York party, who owns $132,000 of the bonds, ordered the works sold because of the failure of the company to pay the last six months' interest that is past due.

BAIRD, TEX.—Moore & Johnson have been awarded the contract for building the works at $9,318, this bid not including the reservoir. Arthur Yonge, Mayor.

WALLA WALLA, WASH.—The council has voted to purchase the works of the Walla Walla Water Co. for $250,000, according to reports.

GOLD HILL, ORE.—W. A. Carter, Town Recdr., writes us that bids for building works to cost $3,000 will be received about May 15.

MEDFORD, ORE.—H. L. Gilkey, Mayor, writes us that a contract for 2,500 ft. of 4-in. cast-iron pipe has been let to J. M. Arthur & Co., Portland, Ore. Bids are wanted until May 15 for 4,000 ft. of 12 to 8-in. sewer pipe.

OREGON CITY, ORE.—T. L. Charman, Secy., writes us that the commissioners have decided to try to find another source of water supply other than pumping from the Clackamas River, as it is found that the fall is not sufficient to bring a supply to the pumping station without going too far up the river. It will probably be several months before the commission will decide. Pop., 6,000.

HEALDSBURG, CAL.—The court has dissolved the injunction restraining this place from issuing $80,000 in bonds for works and an electric plant. It is stated that work will soon begin on the plants.

TUCSON, ARIZ.—Judge Wright is urging the city to issue $100,000 for works.

MARTINEZ, CAL.—Bids are asked by the Road Commissioners until May 1 for furnishing 5,280-ft. of ½-in., 18,480 ft. of 2-in., and 400 ft. of 4-in. water pipe.

RIALTO, CAL.—The Rialto Water Co. has been incorporated with a capital stock of $150,000, by S. H. Heneck, Riverside, Cal.; W. P. Martin, Rialto.

SAN LUIS OBISPO, CAL.—An election will be held April 20 to vote on the question of issuing $80,000 of 5% bonds for works. J. A. Goodrick, Cy. Clk.

WATSONVILLE, CAL.—The Watsonville Water & Light Co. has been awarded a five-year contract for furnishing a water supply. It is stated that no bonds for municipal works will be issued.

PHOENIX, ARIZ.—Acting Mayor Dyer, it is stated, will soon call another election to vote on the question of municipal works and a sewerage system.

PRESCOTT, ARIZ.—The council will build a new dam at a cost of $2,000, improve the reservoir, and build a roof over it.

HEBER, UTAH.—A. C. Hatch writes us that at present the outlook for works is unfavorable, but it is thought, however, that next month work may be started. The supply will be secured from springs. Population, 2,200.

OTTAWA, ONT.—Bids are asked until May 16 for furnishing and erecting the necessary water turbines and pumps for the water-works, as stated in our advertising columns. J. C. Rogers, Chn. Com.; John Galt, Cy. Engr.

PRESCOTT, ONT.—It is stated that Rane, Selby & Co., Kingston, Ont., have the contract for the water tank and 90-ft. tower, at about $10,000, and that Clark & Connolly, Toronto, have the contract for constructing the works at $90,000.

TORONTO, ONT.—Bids are asked until April 24 for laying and jointing such water pipe as may be required during the year. Jno. Shaw, Mayor.

SEWERAGE.

BROOKLINE, MASS.—The citizens have voted $30,000 for new sewers, $40,000 for extending the water mains.

DEDHAM, MASS.—The town has voted to indefinitely postpone the construction of a system.

NORTHAMPTON, MASS.—It is proposed to construct a 4-ft. brick sewer to drain Pleasant St. Brook of the sewage emptied into it; estimated cost, $3,500.

REVERE, MASS.—Bids are asked until 8 p. m., April 20, for furnishing sewer pipe. Whitman & Howard, Engrs., 85 Devonshire St., Boston. G. R. Sackett, Chn.

WESTBORO, MASS.—It is stated that Engineers Van Valkenburgh and Hyde have nearly completed their survey of the Westboro sewage beds and will make a report to the state board of health May 1. Their report will recommend 3,000 ft. of 15-in. iron pipe to replace the terra cotta pipe now in use at the foot of Summer St. The expense of the change will be $9,000. The sewage disposal beds will also have to be remodeled at a cost of $11,000.

NEW HAVEN, CONN.—Bids are asked until April 24 for constructing sewers in several streets. C. W. Kelly, Cy. Engr.

NEW LONDON, CONN.—A local paper states that the contract for constructing sewers in Trumbull, Shaw and Howard Sts. and Willetts Ave., was let April 6 to Chas. T. Hookway, Syracuse, N. Y., at $3,480, and that for constructing the submerged sewer to Geo. A. Rogers, Plattsburg, N. Y., at $3,375. Bids ranged to $8,378 for the pipe sewer and to $8,585 for the submerged sewer.

OLEAN, N. Y.—Bids are asked until May 2 for extending certain sewers, as stated in our advertising columns. E. E. Allen, Supt. of Sts.

ROCHESTER, N. Y.—The city engineer will make surveys for a sewer to carry off the sewage from the East Side tank sewer, now emptying into the river below Seneca Park.

JERSEY CITY, N. J.—Bids are asked until April 25 for constructing 900 ft. of 24-in. brick sewer in 16th St., and 550 ft. of 18-in. pipe sewer in Baldwin Ave., etc. G. T. Bouton, Clk. Bd. Street and Water Comrs.

GETTYSBURG, PA.—The council, it is stated, has granted a franchise to a company to build and operate a system. Dr. J. W. C. O'Neal and John M. Warren are interested.

PITTSBURG, PA.—It is proposed to build pipe sewers in a number of streets. H. T. Ford, Mayor.

WILLIAMSPORT, PA.—Bids are asked until May 1 for 220 ft. of 15-in. pipe sewer in West St., and 675 ft. of 4-ft. brick sewer for the Grafius River storm sewer. G. D. Snyder, Cy. Engr.; Theo. Cornman, Cy. Clk.

FAYETTEVILLE, N. C.—This place has voted to issue $6,000 in bonds for a system.

VALDOSTA, GA.—An election will probably be held April 20 to vote on the question of issuing $35,000 in bonds for a system.

WEST PALM BEACH, FLA.—O. W. Weybrecht is preparing plans for a new system, according to reports.

LEXINGTON, KY.—The question of issuing $50,000 in bonds for a branch to the Davis Bottom sewer and a sewer in the north side is being considered. P. P. O'Neil, Cy. Engr.

BELLEFONTAINE, O.—This place recently voted not to issue $30,000 in bonds for sewers and $10,000 for the fire department.

ELYRIA, O.—Bids are asked until May 8 for furnishing the materials and for constructing the West St. sewer. W. H. Park, Clk.

YOUNGSTOWN, O.—The council voted April 10 to build storm water sewers, etc., in districts Nos. 3 and 4. A. L. Rowland, Pres. Council; F. C. Brown, Clk.

LORAIN, O.—Riggs & Sherman, The Nasby, Toledo, O., are preparing plans for the sewer districts and are also preparing plans for a storm water sewer for the Johnson Steel Co. L. A. Fauver, Cy. Engr.

SPRINGFIELD, O.—The council has voted to construct main sewers and house connections in Woodlawn and Ferncliff Aves. Philip Huonker, Cy. Engr.

AUBURN, IND.—Bids are asked until May 17 for furnishing the materials and for constructing a system, as described in our advertising columns. J. J. Van Auken, Engr.

ELKHART, IND.—Bids are asked until April 26 for constructing 8,400 ft. of 30 to 12-in. pipe sewers in a number of streets. D. F. Cordrey, Cy. Engr.; Kit McKean, Clk.

HAMMOND, IND.—Bids are asked until May 2 for constructing 3,620 ft. of 4-ft. brick sewers. Bond, $10,000. P. J. Lyons, Cy. Engr.

DELRAY, MICH.—The council has been asked to build a sewer in the district between Solway span and Dearborn Ave. Councilman Miller, Chn. Com.

MARSHALL, MICH.—This place has voted to issue $25,000 in bonds for main sewers. Riggs & Sherman, Engrs., Toledo, O.; Miles Townsend, Mayor.

OWOSSO, MICH.—This place has voted to issue $15,000 in bonds for main sewers. Riggs & Sherman, Engrs., Toledo, O.

CHICAGO, ILL.—Bids are asked until May 10 for constructing sewers at the U. S. marine hospital, Chicago. Jas. K. Taylor, Supervising Arch., Washington, D. C.

QUINCY, ILL.—The board of local improvements has readopted its resolution authorizing the construction of the Cedar St. sewer.

HUDSON, WIS.—City Clerk Herrick writes us that this place did not vote April 17 to issue bonds for a system.

SIOUX CITY, IA.—Plans for new storm sewers will probably soon be prepared.

FARGO, N. DAK.—Bids will probably be wanted in about a month for constructing sewers to cost about $25,000, according to reports. S. F. Crabbe, Cy. Engr.

GUTHRIE, OKLA.—It is stated that this city voted against building a system.

CARROLLTON, MO.—Bids are asked by the city clerk until April 25 for the purchase of $50,000 of sewer and paving bonds. Hiram Phillips, Engr., Oriel Bldg., St. Louis.

MACON, MO.—Lynch & Anderson, Moberly, Mo., are reported to have been awarded the contract for building the system at $21,762. Jno. Kohl submitted the next lowest bid.

PUEBLO, COLO.—E. W. Hathaway, Cy. Engr., writes us that the city is building a main in Bessemer district by day labor and letting contracts for the laterals.

SAN LUIS OBISPO, CAL.—An election will be held, April 20, to vote on the question of issuing $36,000 in bonds for a system. An election will also be held by the supervisors, May 2, to vote on the question of establishing a sanitary district. J. A. Goodrich, Cy. Clk.

OREGON CITY, ORE.—C. D. Latourette, Mayor, writes us that it is proposed to construct a system for the resident part of the city. Jno. Bradley, Supt. Sts.

SEATTLE, WASH.—Councilman Hill has introduced a resolution directing the city engineer to prepare an estimate for connecting sewers with the south sewer tunnel. This tunnel is said to have cost about $120,000.

SANTA ANA, CAL.—About $12,000 will be used for extending the sewers.

SAN FRANCISCO, CAL.—The supervisors have passed resolutions to construct pipe and brick sewers in a number of streets. M. F. Fragely, Supt. Sts.

TUCSON, ARIZ.—Judge Wright is urging the city to build sewers to cost $50,000.

SAN CARLOS, ARIZ.—Bids are asked until May 8 for furnishing the materials and for constructing sewerage, water and irrigation systems at the San Carlos Agency. W. A. Jones, Comr. Indian Affairs, Washington, D. C.

MONTREAL, QUE.—The road committee of the council has decided to ask for bids for constructing sewers and drains in St. Denis Ward, to cost $75,000.

GALT, ONT.—The council will soon submit the question of issuing $75,000 in bonds for a system to a vote of the people. There will be over nine miles of sewers. City Engineer McPherson may be addressed.

OTTAWA, ONT.—Newton J. Ker, Asst. Cy. Engr., informs us that the following bids were received, April 14, for constructing section 2 of the main drainage system. John Galt, Cy. Engr.

*O'Leary & Robillard, Ottawa	$226,119
Bourgue & Poulin, Ottawa	245,650
Geo. Goodwin, Ottawa	247,000
Vian & La Chance, Hull, Que	286,907
W. Davis & Sons, Ottawa	320,000
Engineering Contract Co., New York	329,850
Wm. Stewart, Ottawa	397,777

*Awarded contract. The work includes 7,731 lin. ft. of 6-ft. circular brick sewer; 4,440 ft. of 7-ft. sewer, and 1,900 ft. of 5-ft. circular steel pipe for outlets and crossing river. Average depth of cut, 20 ft.; total excavation 92,000 cu. yds., and of this 56,500 cu. yds. is estimated to be rock. Estimated cost of entire system, $425,000. Section 1 was let to Jas. Bourgue at $127,223, is now under construction. Section 4, the only remaining section, will probably be let in May; cost, about $75,000.

GARBAGE DISPOSAL—STREET CLEANING

CHICOPEE, MASS.—Bids are asked until May 1 for collecting the garbage of the city for one year, according to reports. R. D. Dewitt, Secy. Bd. of Health.

GLENS FALLS, N. Y.—Geo. P. Slade, Cy. Engr., writes us that the village proposes to purchase a street sweeper. D. J. Finch, St. Com.

STREETS AND ROADS

LEICESTER, MASS.—Bids are asked by the selectmen until 2:30 p. m., April 22, for regrading and surfacing 1,000 lin. ft. of White St., according to reports.

MALDEN, MASS.—Bids are asked by the street commissioners until 7:20 p. m., April 20, for furnishing paving bricks for the year 1899.

GLENS FALLS, N. Y.—Bids are asked until May 15 for furnishing the material and for constructing about 18,000 sq. yds. of brick paving on concrete, as stated in our advertising columns. W. M. Cameron, Village Clk.

ITHACA, N. Y.—Bids are asked until April 24 for furnishing from 10,000 to 15,000 sq. yds. of repressed vitrified paving brick. Bids are also asked (no date) for furnishing about 25,000 sq. yds. of paving of both brick and stone; also for about 10,000 lin. ft. of Medina stone curbing, as stated in our advertising columns. Chester C. Platt, Clk. of Paving Comn.

NEW BERLIN, N. Y.—A petition is being circulated by the street commissioner to have the board of trustees purchase a stone crusher.

NEW YORK, N. Y.—Bids are asked by the department of highways, 150 Nassau St., until April 28, for furnishing broken stone and screenings of trap rock, gravel, sand, cobblestones and granite paving blocks.

NIAGARA FALLS, N. Y.—The council has passed a resolution to pave Pine St. with asphalt, at an estimated cost of $49,857.

JERSEY CITY, N. J.—Bids are asked until April 25 for about 2,469 sq. yds. of Belgian block paving, grading, curbing, flagging, etc., on 12th St. Geo. T. Bouton, Clk.

NEWARK, N. J.—Bids are asked by the street and water commissioners until April 27 for about 46,600 sq. yds. of sheet asphalt and 5,200 sq. yds. of granite block paving, curbing, grading, etc., on seven streets.

PATERSON, N. J.—A contract has been awarded to John R. Lee for brick paving to cost about $111,000.

BETHLEHEM, PA.—The county grand jury on April 14 recommended the proposed improvement of the road between Bethlehem and Nazareth, a distance of 7½ miles, at an estimated cost of $37,500.

HARRISBURG, PA.—Bids are asked until April 22 for furnishing broken stone, castings, sand, brick and cement. W. H. Lynch, Highway Comr.——The question of purchasing a portable asphalt plant or awarding a contract for the repair of Market St. is being considered. M. B. Cowden, Cy. Engr.; Jno. F. Kerper, Councilman.

PHILADELPHIA, PA.—The Guarantee Paving Co. has submitted the lowest bid, at $11,546, for improving McPherson Square.

WILLIAMSPORT, PA.—Bids are asked until May 1 for about 2,305 sq. yds. of brick paving on concrete foundation, estimated cost, $3,700, as stated in our advertising columns. Theo. Cornman, Cy. Clk.

ANNAPOLIS, MD.—Bids are asked by the county commissioners until April 22 for repairing roads.

BALTIMORE, MD.—The council has voted to pave Sycamore St. with brick, and has passed an ordinance to pave on St. Paul St. with sheet asphalt. An ordinance has also been introduced to pave St. Paul St., between North Ave. and 25th St., with brick, at a cost of $22,000.

ATLANTA, GA.—The council has passed an ordinance to widen and repave Whitehall St. J. J. Maddox, Councilman.

NEW ORLEANS, LA.—Bids are asked until April 24 for asphalt paving on portions of four streets and brick paving on four streets. W. S. Douglass, Comptroller.

GREENEVILLE, TENN.—About 10 miles of each of the pike roads leading from Greeneville will be improved if the proposed appropriation of $100,000 is carried, according to reports.

KINGSTON, TENN.—The county court has voted to let a contract for five miles of pike road from Harriman toward Clack's Gap. The court also passed a resolution to submit to a vote the question of issuing bonds to the amount of $200,000 for pike roads.

MAYFIELD, KY.—The mayor informs us that there will be about one to three miles of brick or stone pavements or sidewalks laid this year, at an early date. Address J. N. Cruchfield, Cy. Engr.

NEWPORT, KY.—Bids are asked until April 26 for repaving on Sixth St. with brick, as stated in our advertising columns. W. L. Glazier, Cy. Engr.

CINCINNATI, O.—Bids are asked by the board of city affairs until May 3 for keeping certain asphalt pavements in repair for five years.

DEFIANCE, O.—Bids are asked until April 24 for macadamizing on Ottawa Ave., according to reports. J. J. Malley, Cy. Clk.

MANSFIELD, O.—Bids are asked until May 6 for improving Bartley Ave. F. M. Remy, Cy. Clk.

STEUBENVILLE, O.—Bids are asked by the county auditor until May 9 for grading and improving about 3,500 lin. ft. of road. Sam. Huston, Engr.

WARREN, O.—An ordinance has been passed to grade, curb and repave on High St. Albert E. Andrews, Cy. Clk.

WOOSTER, O.—J. L. Eberhardt, Cy. Engr., informs us that it is proposed to pave 2,400 sq. yds. with brick; estimated cost, $3,500.

YOUNGSTOWN, O.—It has been resolved to pave Spring St., between Wick Ave. and Holmes St. F. C. Brown, Cy. Clk.

BEDFORD, IND.—A contract has been awarded to J. E. Voorhees & Co., Terre Haute, for several blocks of brick streets.——Woods & Clark have been awarded a contract for three county gravel roads.

LAFAYETTE, IND.—Bids are asked until April 24 for improving portions of 12 streets, and until May 8 for two streets. Jas. K. Risk, Cy. Clk.——Petitions have been presented to the council for asphalt paving on Columbia St., South 6th, North 6th and South Sts., representing about 13,924 lin. ft.

MICHIGAN CITY, IND.—Bids are asked until April 24 for asphalt and brick paving, according to reports. E. J. Heise, Cy. Clk.

MIDDLETOWN, IND.—Bids are asked until May 1 for grading and cement paving of certain sidewalks. W. L. McCampbell, Clk. Bd. of Trustees.

COLDWATER, MICH.—This place has ordered 10,000 sq. yds. of paving, after plans by Riggs & Sherman, Toledo, O.

YPSILANTI, MICH.—The council has passed a resolution to pave three blocks of Congress St. with brick.

CHAMPLAIN, ILL.—The council has pasesd an ordinance to pave West University Ave., cost, $34,307.

MATTOON, ILL.—Bids are asked by A. C. Loomis, Cy. Engr., until April 25 for furnishing the material and for constructing 7,500 lin. ft. of 6-ft. cement sidewalk and 6,000 lin. ft. of 6-ft. brick sidewalk.

MARINETTE, WIS.—A contract has been awarded to Jno. Martin, Oshkosh, at $4,356, for paving Riverside Ave.

MINNEAPOLIS, MINN.—Bids are asked until April 21 for 6,570 sq. yds. of sandstone paving. L. A. Lydiard, Cy. Clk.

HOUSTON, TEX.—Bids are asked until April 24 for asphalt, brick, macadam and gravel paving on several streets, according to reports. I. A. Miller, Cy. Engr.

LONDON, ONT.—The committee has recommended that the council ask bids for paving the Market Square with brick or asphalt.

NANAIMO, B. C.—Bids are asked until May 15 for a 12 or 15-ton steam road roller. S. Gough, Cy. Clk.

MANUFACTURING PLANTS.

MADISON, ME.—Greenleaf & Doring, Lewiston, Me., are reported to have been awarded the entire contract for the enlargement of the Manufacturing Investment Co.'s pulp mill in this town; estimated cost, $350,000. The contract calls for the erection of a one-story building, 94 x 78 ft., to be used as a grinder room and for the manufacture of the ground wood pulp; a new room, 64 x 24 ft., for the large pumps which supply the water for the plant; a one-story generator room, 76 x 64 ft.; a one-story sulphur burning house, 100 x 54 ft.; and a finishing room, 165 x 70 ft. These buildings are all to be of brick and will have steel frames furnished by the Berlin Iron Bridge Co., East Berlin, Conn.

MEDWAY, ME.—The Shiffler Bridge Co., Pittsburg, is stated to have received the contract for furnishing 2,500 tons of structural work for the new plant of the Great Northern Paper Co., to be erected at Millnocket, Medway P. O. Westinghouse, Church, Kerr & Co., Pittsburg, have the contract for the equipment of the boiler rooms of the plant with Roney stokers.

WINSLOW, ME.—It is reported that H. Purinton & Co. have secured the contract for erecting additions to the paper mill of the Hollingsworth & Whitney Co., to cost about $50,000.

EASTON, PA.—R. D. Kinney, Mechanical and Structural Engineer, 353 Bourse Bldg., Philadelphia, Pa., has about completed plans and specifications for a new Portland cement mill, to be erected near Easton. The mill is designed to have a capacity of 2,000 barrels of finished cement a day, and will be up-to-date in every respect.

PHILADELPHIA, PA.—A fire at Tacony, a suburb of this city, April 17, destroyed the blue works of Whitaker & Delaney; reported loss, $100,000.

NORFOLK, VA.—L. E. Holden, 8 East 42d St., New York, is reported to have prepared plans for a large mill to be erected here for the Norfolk Silk Co.

CHESTER, W. VA.—Reports state that the Fort Pitt Bridge Co., Pittsburg, has received a contract for building the structural work on the new Chester rolling mill, 300 x 130 ft., to be erected at Chester.

GREENSBORO, N. C.—We are informed that C. R. Willard, Spartanburg, S. C., has received the contract for erecting two brick and stone factory buildings, to cost $50,000, for B. Frank and Dr. Geo. A. Mebane, manufacturers of cotton goods. Bids will be received later on for the equipment, including water-wheels, electric plant and boilers for heating. Ladshaw & Ladshaw, Archs., Spartanburg, S. C.

GRAND RAPIDS, MICH.—Hauser, Hayden & Owen, Grand Rapids, are reported to have received the contract for erecting a bottling plant for the Grand Rapids Brewing Co., at East Bridge and Ottawa Sts., to cost about $51,800. Louis Lehle, Arch.

OSHKOSH, WIS.—A fire in this city, April 12, damaged the plants of the Choate-Hollister Furniture Co. and the Star Foundry Machine Works. Reported loss on the former, about $100,000.

PORTLAND, ORE.—It is reported that F. W. Isherwood, Mgr., will erect a 4-story brick stove factory building for the Bridge & Beach Mfg. Co., St. Louis, and the Cribben Sexton Co., Chicago; estimated cost, $150,000.

GAS PLANTS.

WASHINGTON, D. C.—Bids are asked by the district commissioners until May 13 for furnishing 2,000 street lanterns and for lighting with naphtha lamps the public streets, avenues, etc., in the District of Columbia for the year ending June 30, 1900, as stated in our advertising columns.

FLORENCE, ALA.—Bids are asked by the city clerk until May 2 for furnishing 100 gas lights with and without Wellsbach street burners, for five or ten years.

CADIZ, O.—The Tuscarson Oil & Gas Co. has decided to sink a number of wells. The company controls about 4,000 acres of oil lands in this county, according to reports.

CLEVELAND, O.—Bids are asked until May 10 for furnishing and maintaining about 2,200 70-c. p. incandescent vapor lamps, for one year. Geo. R. Warden, Dir.

MISCELLANEOUS CONTRACTS.

FIRE ALARM SYSTEM.—Ballston Spa, N. Y.—It is proposed to install an electric fire alarm system; population, about 4,000.

HYDRAULIC CEMENT.—Washington, D. C.—Bids are asked by the district commissioners until May 6 for furnishing 40,000 bbls. of natural hydraulic cements.

DREDGING.—Mobile Bay, Ala.—Bids are asked until May 12 for dredging in Mobile Bay, as stated in our advertising columns. Maj. Wm. T. Rossell, U. S. Engr.

SAND.—Fisher's Island, N. Y.—Bids are asked until May 17 for furnishing sand at Fisher's Island, as stated in our advertising columns. Maj. S. S. Leach, U. S. Engr., New London, Conn.

DREDGING.—Stamford Harbor, Conn.—Bids are asked until May 18 for dredging in Stamford Harbor, as stated in our advertising columns. Maj. S. S. Leach, U. S. Engr., New London.

DREDGING.—Grand Rapids, Mich.—Bids are asked until 3 p. m., April 21, for dredging the harbors on the east shore of Lake Michigan. Capt. Chester Harding, U. S. Engr., 54 Park St.

PIER WORK.—St. Joseph, Mich.—Bids are asked until May 19 for repairing the government pier, as stated in our advertising columns. Capt. Chas. Harding, U. S. Engr., 37 Park St., Grand Rapids.

DREDGING.—Huntington Harbor, N. Y.—Bids are asked until May 15 for dredging in Huntington Harbor, N. Y., as stated in our advertising columns. Maj. H. M. Adams, U. S. Engr., Army Bldg., New York.

DREDGING.—Wisconsin.—Bids are asked until May 17 for dredging in the Menominee River, Oconto, Green Bay, etc., as stated in our advertising columns. Capt. J. G. Warren, U. S. Engr., Milwaukee, Wis.

TUNNEL.—Harrisburg, Pa.—The Pennsylvania R. R. Co. has awarded a contract to Drake & Stratton Co., Conestoga Bldg., Pittsburg, at about $200,000, for constructing a new tunnel at Spruce Creek.

DREDGING, ETC.—Portchester Harbor, N. Y.—Bids are asked until May 17 for dredging and rock excavation in the channel of Portchester Harbor, as stated in our advertising columns. Maj. H. M. Adams, U. S. Engr.

WEIRS, PIERS, ETC.—Ohio River.—The Evansville Contract Co., Evansville, Ind., submitted the lowest bid, at $174,980, on April 12, for building the weirs, piers, abutments and a portion of the pass and dam No. 6 in the Ohio River, as advertised in Engineering News. Maj. W. H. Bixby, U. S. Engr., Cincinnati.

DREDGING PLANT.—Buffalo, N. Y.—Bids are asked until May 20 for the hire of a dredging plant for excavating in the Niagara River, as stated in our advertising columns. Maj. T. W. Symons, U. S. Engr., Buffalo.

DUMPING CARTS AND WINDMILL.—New York, N. Y.—Bids are asked by the department of correction, 148 East 20th St., New York, until May 2, for furnishing four steel dumping carts and a windmill for use on Riker's Island.

TELEPHONES.—Boston, Mass.—It was reported April 16 that the Massachusetts Telephone & Telegraph Co. has secured about 2,000 subscribers and work is to commence within 60 days. Contracts for materials have not yet been let.

DREDGES.—St. Louis, Mo.—Bids are asked until May 31 for furnishing two self-propelling hydraulic dredges for the use of the Mississippi River Commission, as stated in our advertising columns. Capt. M. M. Patrick, U. S. Engr., Secy., Fullerton Bldg.

REMOVING ROCK, ETC.—Mystic River, Conn.—Bids are asked until May 18 for removing rock from the Mystic River, and for dredging in Thames and Housatonic Rivers, as stated in our advertising columns. Maj. S. S. Leach, U. S. Engr., New London, Conn.

DREDGING AND JETTY.—Sandusky Harbor, O.—Bids are asked until May 15 for dredging channels and for constructing jetty and bar protection of brush and stone at Sandusky Harbor, as stated in our advertising columns. Col. J. A. Smith, U. S. Engr., Cleveland.

CONTRACT PRICES.

SEWERS.—Concord, Mass.—We are informed that the following bids were received April 10 for completing the sewerage system in this city, as advertised in Engineering News; Leonard Metcalf, Engr., 89 State St., Boston:

Bids Received at Concord, Mass., April 10, 1899, for Completing Sewerage System.

Quantities.		T. W. Kinser & Sons.	Michael Russo & Co.	Samuel W. Frescoln.	Bruno & Salomone.	Lucian A. Taylor.	Frank L. Allen.	Charles C. Craib.	C. E. Trumb'll & Co.
Earth excavation	0 to 8 ft. 16,500 cu. yds.	$0.43	$0.42	$0.80	$0.65	$0.75	$0.85	$1.25	$1.50
	8 " 14 " 6,400 " "	.59	.65	1.10	1.00	1.25	1.50	1.50	1.50
	14 " 20 " 1,570 " "	.85	2.25	2.00	1.75	1.80	3.00	3.00	3.00
	20 " 26 " 60 " "	1.25	2.00	3.00	2.25	2.40	5.00	3.50	3.00
Refill below grade	50 " "	1.20	.80	.50	1.00	.80	2.00	1.00	1.00
Ledge or bowlders	50 " "	1.50	6.00	1.00	4.00	5.00	5.00	1.00	2.00
Laying sewer pipe	18,900 lin. ft.	.10	.25	.10	.18	.20	.40	.25	.25
C.-I. pipe for river crossing	421 " "	6.00	4.00	8.00	9.75	6.00	23.00	12.00	12.00
Portland concrete	100 cu. yds.	3.50	4.00	3.00	6.00	4.50	4.50	5.00	5.00
Brick work	385 " "	10.00	10.00	9.00	12.00	10.50	10.50	11.00	11.00
Macadam	70 " "	2.00	1.75	1.50	2.00	3.00	2.50	6.00	6.00
Gravel fill	650 " "	.35	.50	.50	.40	.60	.60	.50	.50
Force main	4,700 lin. ft.	.40	.70	.20	.30	.38	.45	.75	.75
Total		$23,279	$29,515	$34,028	$34,794	$36,820	$53,401	$54,027	$58,172

PUMPING ENGINES.—Philadelphia, Pa.—The following bids were received by the board of public works April 11, for furnishing two 5,000,000 gallon pumping engines, for the Roxborough Station:

Bidder.	Engines. One.	Engines. Two.
I. P. Morris Co., Philadelphia	$36,950	$73,900
Lake Erie Engine Works, Buffalo	34,675	69,350
Barr Pumping Engine Co., Phila.	25,500	51,000
	29,000	58,000
	37,500*	75,000
Henry R. Worthington, New York	32,000	60,000
Robt. Wetherill & Co., Chester, Pa.	32,050	64,100
Holly Mfg. Co., Lockport, N. Y.	A 41,900	83,800
	B 29,950	59,900

*Department specifications: Vertical cross compound condensing; vertical triple expansion.

Time for Completion: The Morris Co., 1st pump, 7, and 2d, 9 months; 1st (2) 145,000 and (3) 145,000 pumps, 105 days and (4) additional in 140 days. The Lake Erie Works, 1st in 180, and 2d in 240 days; the Barr Co., 1st in 240 and 2d in 270 days; H. R. Worthington, 1st in 8 and 2d in 10 months; Wetherill & Co., 1st in 208, and 2d in 260 working days, and 1st 3,000,000 pump in 160 and 2d in 212 working days; the Hollis Co., 1st (A or B) 300, and 2d (A or B) in 360 days.

Robert Wetherill & Co. also bid $20,200 for one and $40,400 for two 3,000,000 gallon engines; the I. P. Morris Co. bid $10,000 for five to seven engines of 2,145,000 gallons capacity.

ASPHALT PAVING.—Paterson, N. J.—Thos. McLean, Cy. St. Comr., writes us that the following bids were received April 3 for asphalt paving, as advertised in Engineering News:

Bids Received at Paterson, N.J., April 3, 1899, for Asphalt Paving.

Quantities.		Barber Asphalt Paving Co., New York.	Atlantic Alcatraz Asp. Co., Newark.	George McDonald, Paterson.	New Jersey Asphalt Co., Newark.	Paterson Construction Co., Paterson.	Marley & Forbes, Paterson.
Asphalt	16,200 sq. yds.	$2.24	$2.27	$2.07	$2.14	$2.15	$2.15
New 20-in. curb	7,100 lin. ft.	.60	.45	.89	.60	.60	.60
Resetting Old 20-in. curb	330 " "	.10	.10	.29	.25	.10	.10
New 16-in. curb	40 " "	.45	.40	.75	.50	.45	.45
Resetting old 16-in. curb	40 " "	.10	.10	.29	.25	.10	.10
Laying new crosswalks	600 " "	.60	.50	.60	.60	.40	.01
Relaying old crosswalks	600 " "	.15	.10	.17	.10	.10	.01
Manhole frames and covers	20 each	10.00	10.00	10.00	10.00	10.00	10.00
Catchbasins and conns.	8 "	38.00	100.00	12.00	50.00	38.00	38.00
Traps in old basins	7 "	13.00	10.00	5.00	15.00	13.00	40.00
Chang'g revg to catchbasins	6 "	40.00	25.00	7.00	50.00	4.00	13.00
New headers for curb	700 "	.45	.15	.70	.50	.45	.45
Redress old curb for headrs	40 "	.10	.10	.50	.20	.10	.10
Total		$42,207	$41,711	$41,335	$40,819	$40,383	$40,328

BRICK PAVING.—Scranton, Pa.—Jos. P. Phillips, Cy. Engr., informs us that the following bids were received April 13 for 40,000 yds. of brick paving in Providence Road and North Main Ave.; guarantee 10 years:

Items.	*Geo. McDonald, Newark, N. J.	Girard Const'n Co., Phila., Pa.	M. H. Dale, Scranton Pa.
Brick pavement on 6-in. conc.	$1.79	$1.97	$1.98
6x15-in. straight curb	22,433 ft. .98	.71	.72
With drain tile, lin. ft.	...	.89	.90
Circular curb	1,109 " 1.25	1.19	1.20
With drain tile, lin. ft.	...	1.35	1.38
Resetting old curb, lin. ft.	.29	.21	.24
Laying 12-in. pipe, lin. ft.	...	.25	.26
Receiving basins, each	...	25.00	25.00

*Rejected; did not comply with ordinance. Note.—The straight curb is to be on a bed of 6 ins. of concrete.

PUBLIC LIGHTING.—Brockton, Mass.—The following bids have been received by the committee for public street lighting: Edison Electric Co., are lights for 1,200-c. p., $90 each light a year; for an additional 25 up to 300, 5% discount; for incandescent lights of 15 c. p., $13 each per annum; of 25-c. p., $17.50 per annum. Welsbach Street Lighting Co., gas and naphtha lights of 60 c. p., 100 lights for three years, $31.50 each per annum; 200 lights for three years, $30.50 each per annum; 300 lights for three years, $30; on the moonlight or 1 o'clock a. m. schedule, a discount of $5 on each lamp per year. The Welsbach company in its contract agrees to furnish all connections, material, post, light and extinguish lamps and to make all repairs required. Globe Gaslight Co., of Boston, to furnish the improved Globe lanterns, equipped with the improved Globe burner and mantle, iron posts, mantels, illuminating material, and men to light, extinguish, keep clean and repair the lanterns at the following price: Not less than 100 of its improved Globe lamps of 60 c. p. each, $29.50 each light a year; for the moonlight, or 1 o'clock a. m. schedule, $22.50 each light per annum.

PAVING BLOCKS, ETC.—Boston, Mass.—The following bids were received by the superintendent of streets March 31, 1899, for furnishing granite flagging from April 1, 1899, to Feb. 1, 1900: John J. Cuddihy, 26 and 29 cts.; S. & R. Lombard, 27 and 29 cts.; Cape Ann Granite Co., 33 and 37½ cts. a sq. ft. delivered on wharves or in city department yards, respectively. For delivery on wharves, Rockport Granite Co., 32 cts. 500,000 large granite paving blocks, Rockport Granite Co., $54.90; Cape Ann Granite Co., $56.00; Pigeon Cove Co., $55.70. 800,000 gutter blocks, Cape Ann Granite Co., $47.40; Rockport Granite Co., $47.30; Pigeon Hill Granite Co., $49.30; S. & R. Lombard, $47 a 1,000 delivered on wharves. A bid of $45 a thousand was also submitted by S. & R. Lombard for delivery on the cars of the Boston & Maine R. R. at Boston.

ELECTRIC LIGHTING.—Colorado Springs, N. Y.—The council has let a contract to the El Paso Electric Light Co. as follows for public lighting: 135 or more street lights, $98 a year for five years; $108 a year for three years.

GRANITE BLOCKS.—Newark, N. J.—The contract for paving Warren St., from Newark to Bruce Sts., with granite blocks has been let to Jno. F. Shanley, at $2.26 a sq. yd. The following are the other bids: Antonio Rizzolo, $2.50; The Newark Paving Co., $2.69; O'Connor & McManus, $2.75.

INDUSTRIAL NOTES.

F. M. WATKINS, Cincinnati, has removed his office and warerooms to 309 West Fourth St.

THE BARR PUMPING ENGINE CO., Philadelphia, through its Eastern representative, Mr. W. H. Bodfish, 8 Oliver St., Boston, has received the contract for high-duty pumping machinery for the town of Attleboro, Mass.

THE BUFFALO FORGE CO., Buffalo, N. Y., has recently equipped the foundry and blacksmith shop of the National Iron Co., at Reed City, Mich., with blowers. The company reports that it had previously used four other kinds, but without satisfactory results.

MR. GEORGE M. PIERCE, 315 American Trust Bldg., Cleveland, Ohio, shipped, April 11, a carload of 80 catch-basin covers to the city of Hartford, Conn. Mr. Pierce informs our representative that the Sewer Department of St. Louis, Mo., has adopted the Pierce sewer inlet.

THE CONTINENTAL FILTER CO., New York, has closed a contract with the owners of the Louisiana, Mo., water-works for an extension of their filtration plant. This town is located on the Mississippi River, and the water at times is very turbid, but we are informed that the contract covers a high standard of purity.

THE CITY-WASTES DISPOSAL CO., 874 Broadway, New York, has been organized from the staff of the late Col. Geo. E. Waring, Jr., and will make a specialty of sewage disposal, garbage and refuse disposal, and street cleaning. The officers are: Pres., F. M. Gibson; Vice-Pres. and Mgr., G. Everett Hill; Secy. and Treas., M. E. Stone; Engr., Wm. L. Church.

THE EVANSVILLE CONTRACT CO., Evansville, Ind., has been organized with a capital stock of $100,000 by the consolidation of the contracting firms of Eichel & Arnold and Eigenmann & Hollerbach. The new company will complete the work now being carried on by the old companies, reputed as amounting to over $1,000,000 worth of contracts for work in the Ohio River.

THE WEBER GAS & GASOLINE ENGINE CO., Kansas City, Mo., reports the following recent shipments: One carload, eight engines, to Southern California for irrigation; one 10-HP. hoist for Sonora, Mex.; one 25-HP. hoist for Silverton, Colo.; one 10-HP. engine for Havana, Cuba; one crude oil engine for Porterville, Cal. The company has just finished the installation of a plant, entirely furnished by it, for pumping the sewage for the city of El Paso, Tex., during flood time of the Rio Grande River. This consists of two direct-connected 10-HP. Weber gasoline engines, and two 8-in. Morris centrifugal pumps.

BRIDGE.

BINGHAMTON, N. Y.

Notice is hereby given that the city of Binghamton will receive up to May 9th, 1899, at 6 o'clock p. m., proposals for the erection complete of the substructure and superstructure of a bridge across the Susquehanna river at foot of Tompkins street in the city of Binghamton, N. Y., according to plans and specifications therefor prepared by the City Engineer of said city, and filed with the City Clerk. The entire work will be awarded together to one bidder, but in making proposal therefor bidders must conform to the form of proposal which will be furnished by the city on application to the City Clerk. The bidder to whom the work shall be awarded will be required to enter into contract with the city therefor and to give at the time of entering into such contract a bond in the sum of $10,000.00, conditioned for the faithful performance of the contract in all its parts, with either two sureties, residents of the State of New York, or a surety company duly authorized to execute such bonds within the State of New York, said surety or sureties to be approved by the Mayor of said city. Each proposal must be sealed, marked "Proposal for construction of Bridge for City of Binghamton," and be addressed to "S. D. Kane, City Clerk." With each proposal must be a certified check or New York draft for $1,000.00, payable to the order of the City Clerk, which check or draft shall be held as a guaranty that the party to whom the work is awarded will enter contract therefor and give the bond above required. The City reserves the right to reject any or all bids.

S. D. KANE,
City Clerk.

Dated April 18, 1899. 16-2t

WATER-WORKS AND ELECTRIC LIGHT PLANT.

WINCHESTER, IND.

Sealed bids for furnishing work and material for the construction of a water-works and arc lighting system for Winchester, Indiana, will be received by the undersigned until 8 o'clock p. m., May 3d, 1899.

Bids will be received on any or all of the following items:

Power Station;
Stand Tower;
Two 125-HP. Steam Boilers;
One 60-light 2,000 c. p. arc machine and 40 arc lamps;
Two power or deep well pumps (capacity 350 gals. per minute);
Engines for operating pumps and dynamo;
Eight miles of pipe and specials, 4 to 12-in.;
63 Hydrants and 40 Valves;
Pipe laying;
Pole line and arc circuit;
One or more wells.

Certified check required with all proposals for ten per cent. of the amount of bid.

Instruction to bidders and blank form of proposal can be obtained and plans and specifications can be seen at the office of Daniel W. Mead, Consulting Engineer, 605 First National Bank Building, Chicago, or at the office of the undersigned at Winchester, Indiana.

WINCHESTER WATER & LIGHT CO.
16-2t A. L. NICHOLS, Secy.

WATER-WORKS.

GALLATIN, TENN., April 12, 1899.

The Water-Works Committee of Gallatin, Tenn., will receive sealed proposals, till 8 o'clock p. m., May 15th, 1899, embracing either or all the following items, for constructing a System of Water-Works:

A. Steel Tower and Tank.
B. Two 60-in. x 16 ft. boilers and heater.
C. 943 tons cast-iron pipe and 8½ tons specials.
D. 54 hydrants and 26 valves, with boxes.
E. Four horizontal duplex pumps.
F. Laying 7¾ miles pipe.
G. Constructing pump pit and filter basin.
H. Constructing building and foundation.
I. Setting boilers.
J. Installing pumps.

These quantities are approximate and subject to revision. Each proposal must be accompanied by a deposit of at least 3% of the price named.

The right is reserved to reject any or all proposals. For blank forms and specifications, address E. O. BUCHANAN, Secy,
Gallatin, Tennessee.

WALTER G. KIRKPATRICK, Engineer,
Jackson, Miss. 16-1t

U. S. ENGINEER OFFICE, Mobile, Ala., April 12, 1899.—Proposals for DREDGING in Mobile Bay will be received here until 12 m., May 12, 1899. Information on application. WM. T. ROSSELL, Maj., Engrs. 16-4t

NOTICE TO BRICK MANUFACTURERS.

The Paving Commission of the City of Ithaca desire sealed proposals for the furnishing of from 10,000 to 15,000 yards of repressed, vitrified paving bricks. Manufacturers are requested to furnish sample with each bid submitted. Bricks to be delivered upon the streets of the City of Ithaca, and piled under the direction of the Superintendent of the Paving Commission. All bids must be received on or before April 24, 1899.

The Commission reserves the right to reject any and all bids.

CHESTER C. PLATT,
Clerk of Paving Commission, City Hall.
Ithaca, N. Y., April 14, 1899. 16-1t

BRICK PAVING.

GLENS FALLS, N. Y.

Sealed proposals will be received by the Board of Trustees of the Village of Glens Falls, N. Y., up to May 15th, 1899, at 7.30 p. m., for furnishing of all materials and the construction of about 18,000 sq. yds. of vitrified brick pavement on concrete foundation on Glen, Warren, South and Bay Sts., according to plans on file in Clerk's office. The Village reserves the right to reject any or all bids.

Specifications will be ready on or about May 1st, 1899, and can be obtained by addressing W. M. CAMERON,
16-4t Village Clerk.

BRICK PAVING.

NEWPORT, KY.

Sealed proposals will be received by the Board of Improvements of Newport, Ky., at the office of the City Engineer, until 12 o'clock, noon, April 26, 1899, for the reconstruction by paving with brick of 6th St., from York St. to Columbia St. Plans, etc., can be seen at Engineer's office. Deposit of $25.00 must accompany each bid. The right to reject any or all bids is reserved.

W. L. GLAZIER,
16-1t City Engineer.

BRICK PAVING.

WILLIAMSPORT, PA.

Sealed proposals will be received until 12 o'clock, noon, of Monday, May 1st, 1899, by the Highway and Sewer Committee of Councils of the city of Williamsport, Pa., for the repaving with vitrified brick on a concrete foundation of West street, from the south side of Third street to the south side of the old canal right of way, amounting to about 1,080 square yards. Also for the paving with vitrified brick on a concrete foundation of Academy street, between Third street and Fourth street, amounting to about 1,225 square yards. Specifications and blank proposals can be obtained at the office of the City Engineer. Separate bids to be made for each street. All bids to be accompanied by a certified check for $1,000. The city reserves the right to reject any and all bids.

THEO. CORNMAN, GEO. D. SNYDER,
16-1t City Clerk. City Engineer.

STREET WORK.

ITHACA, N. Y.

The City of Ithaca, N. Y., wants proposals from Contractors for furnishing about 25,000 yards of paving of both brick and stone; also for about 10,000 ft. of Medina stone curbing.

For specifications apply to
CHESTER C. PLATT,
Clerk of Paving Commission, Ithaca, N. Y.
16-3t

TREASURY DEPARTMENT, Office Supervising Architect, Washington, D. C., April 17, 1899.—Sealed proposals will be received at this office until 2 o'clock p. m., on the 16th day of May, 1899, and then opened, for the erection and completion (except heating apparatus and electric wire conduits and wiring), of the "Kitchen and Restaurant" building and the "Disinfection, Bath House and Laundry" building at the U. S. Immigrant Station, Ellis Island, New York Harbor, in accordance with the drawings and specifications, copies of which may be had at this office or the office of the Superintendent of Repairs, U. S. Court House and Post Office building, New York city. JAMES KNOX TAYLOR, Supervising Architect. 16-2t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 8, 1899.—Sealed proposals will be received at this office until 2 o'clock p. m., on the 8th day of May, 1899, and then opened, for the heating and ventilating apparatus for the U. S. Post Office building at Brockton, Mass., in accordance with drawings and specifications, copies of which may be had at this office, or at the office of the Superintendent of the above-named building. JAMES KNOX TAYLOR, Supervising Architect. 16-2t

SEWERS.

OLEAN, N. Y.

Sealed proposals will be received by the common council of the city of Olean, until 8 o'clock p. m., on the 2d day of May, 1899, at the council chamber in said city, at which time and place bids will be publicly opened and read, for the construction of a 20-in. sewer in East Sullivan St., extending from Union St. to Barry St., a distance of about 500 ft., and also for the construction of an 8-in. sewer in W. Sullivan St., extending from Tenth St. easterly about 315 ft. Plans and specifications may be seen and bid sheets procured at the office of the Supt. of Streets, city building. The common council reserves the right to reject any or all bids.

E. E. ALLEN, Supt. of Streets.
Dated April 13, 1899. 16-1t

SEWER SYSTEM.

AUBURN, IND.

Sealed proposals will be received by the Trustees of the Incorporated Town of Auburn, DeKalb county, Indiana, until 7.00 o'clock p. m., Wednesday, May 17, 1899, for the furnishing of all material and labor necessary for the complete construction of a combined Sewer System for the urban and suburban districts of said town.

The approximate quantities are:

600	feet of	36-in.	Sewer,	8 foot cut.
500	"	30-in.	"	4 "
500	"	27-in.	"	4 "
3,000	"	24-in.	"	4 "
400	"	20-in.	"	14 "
13,000	"	18-in.	"	12 "
5,500	"	15-in.	"	10 "
15,000	"	12-in.	"	8 "
2,500	"	10-in.	"	8 "
9,000	"	8-in.	"	8 "
5,000	"	6-in.	"	6 "
1,000	"	4-in.	"	4 "

75 Brick Manholes.
25 Pipe Lamp Holes.
250 Pipe Catch Basins,
25 Pipe Flushing Holes.

Each proposal will be accompanied by a certified check in the sum of One Thousand ($1,000) Dollars, made payable to the president of the board of trustees, and delivered to the town clerk, and will be opened and read by him, or his deputy, at the time stated in the foregoing notice.

16-1t J. J. VAN AUKEN, Engineer.

PUMPING MACHINERY.

CITY OF OTTAWA, CANADA.

Sealed proposals by registered mail will be received at the City Hall by the Chairman of the Water-Works, until noon of Tuesday, 16th May, for furnishing and erecting complete the necessary Water Turbines and Pumps, geared together and to be so arranged, if preferred, that auxiliary electric motors may be attached if decided upon at any later date; all to the entire satisfaction and approval of the City Engineer. Building, foundations, and all necessary masonry, and other incidental work will be done by the Corporation.

Water Turbines can be set to have an average head of 25 feet, and in order to economize space and simplify the installation of additional Pumps in the future, the Water Turbine may be installed for double the present seven million capacity and an alternative price given by the Tenderer. Pumps must have a reliable daily capacity, when pumping direct into city water mains of seven million Imperial gallons against a hydraulic pressure of 125 pounds per square inch, and must be completed on or before the first week of October, 1899.

Tenders to be accompanied with the fullest possible information, including Illustrations, Plans and Specifications, in detail, covering Design, Construction, Material and Finish; also an accepted bank cheque for not less than five per cent. of the tender, payable to the order of the City Treasurer, which will be forfeited if Tenderer declines to enter into a contract when awarded.

Further information can be obtained by direct correspondence with the City Engineer, or by personal visit to Ottawa.

Bidders must furnish satisfactory evidence and proof of their experience and ability to carry out the work, and may offer for the Water Turbines and Pump Sections separately or together.

The Corporation do not bind themselves to accept the lowest or any tender.

J. C. ROGER,
Chairman Water-Works Committee.
JOHN GALT, C. E. & M. E.,
City Engineer.
April 20, 1899. 16-3t

U. S. ENGINEER OFFICE, Army Building, New York, April 15, 1899.—Sealed proposals for DREDGNG in Huntington Harbor, N. Y., will be received here until 12 o'clock, noon, May 15, 1899, and then publicly opened. Information furnished on application. H. M. ADAMS, Major, Engrs. 16-4t

U. S. ENGINEER OFFICE, New London, Conn., April 18, 1899.—Sealed proposals in triplicate will be received here until 12 o'clock, noon, May 18, 1899, and then publicly opened, for REMOVAL OF ROCK from Mystic River, and dredging in Thames and Housatonic Rivers, Conn. Information furnished on application. SMITH S. LEACH, Engrs. 16-4t

PROPOSALS FOR CONSTRUCTION OF LOCK AND DAM.—Office, Missouri River Commission, 1515 Locust St., St. Louis, Mo., April 4, 1899.—Sealed proposals for construction of Lock and Dam No. 1, Brennekes Shoal, Osage River, Mo., will be received here until noon, May 6, 1899, and then publicly opened. Information furnished on application. H. M. CHITTENDEN, Capt., Engrs. 15-4t

U. S. ENGINEER OFFICE, Chattanooga, Tenn., April 13, 1899.—Sealed proposals for constructing two DIPPER DREDGES will be received here until noon, Saturday, May 13, 1899, and then publicly opened. Information furnished on application. DAN. C. KINGMAN, Major, Engrs. 15-4t

U. S. ENGINEER OFFICE, New London, Conn., April 10, 1899.—Sealed proposals in triplicate will be received here until 12 o'clock noon, May 10, 1899, and then publicly opened, for DREDGING in Five Mile River and Norwalk Harbors, Conn. Information furnished on application. SMITH S. LEACH, Maj., Engrs. 15-4t

PROPOSALS FOR FURNISHING NATURAL HYDRAULIC CEMENTS.—Office of the Commissioners, D. C., Washington, April 13, 1899.—Sealed proposals will be received at this office until 12 o'clock m., May 6th, 1899, for furnishing 40,000 barrels, more or less, natural hydraulic cements. Blank forms of proposal, specifications and all necessary information may be obtained at this office. JOHN B. WIGHT, JOHN W. ROSS, LANSING H. BEACH, Commissioners, D. C. 16-1t

PROPOSALS FOR STREET LANTERNS.—Office of the Commissioners, Washington, D. C., April 15, 1899.—Sealed proposals will be received at this office until 12 o'clock m., Saturday, May 13, 1899, for furnishing 2,000 Street Lanterns. Specifications and blank forms of proposals may be obtained at this office. JOHN B. WIGHT, JOHN W. ROSS, LANSING H. BEACH, Commissioners, D. C. 16-1t

PROPOSALS FOR NAPHTHA STREET LIGHTING IN THE DISTRICT OF COLUMBIA.—Office of the Commissioners, D. C. Washington, D. C., April 15, 1899.—Sealed proposals will be received at this office until 12 o'clock m., Saturday, May 13, 1899, for lighting the public streets, avenues, alleys and roads in the District of Columbia during the year ending June 30, 1900, with naphtha lamps. Specifications and blank forms of proposals may be obtained at this office. JOHN B. WIGHT, JOHN W. ROSS, LANSING H. BEACH, Commissioners, D. C. 16-1t

U. S. ENGINEER OFFICE, D. S. Morgan Building, Buffalo, N. Y., April 1, 1899.—Sealed proposals for hire of dredging plant for excavation in Niagara River will be received here until 11 o'clock a. m., May 20, 1899, and then opened. Information furnished on application. T. W. SYMONS, Major, Engrs. 16-4t

U. S. ENGINEER OFFICE, Army Building, New York, April 17, 1899.—Sealed proposals for DREDGING and ROCK EXCAVATION in channel of Port Chester Harbor, N. Y., will be received here until 12 o'clock, noon, May 17, 1899, and then publicly opened. Information furnished on application. H. M. ADAMS, Major, Engrs. 16-4t

PROPOSALS FOR DREDGES.—Mississippi River Commission, Fullerton Building, St. Louis, Mo., April 19, 1899.—Sealed proposals in triplicate for construction and delivery of two self-propelling hydraulic dredges complete with machinery, cabin, outfit, etc., will be received here until 12 o'clock, noon, standard time, May 31, 1899, and then publicly opened. Information furnished on application. MASON M. PATRICK, Capt., Engrs., Secy. 16-6t

U. S. ENGINEER OFFICE, New London, Conn., April 18, 1899.—Sealed proposals in triplicate will be received here until 12 o'clock, noon, May 18, 1899, and then publicly opened, for DREDGING in Stamford Harbor, Conn. Information furnished on application. SMITH S. LEACH, Maj., Engrs. 16-4t

U. S. ENGINEER OFFICE, New London, Conn., April 17, 1899.—Sealed proposals for furnishing and delivering SAND at Fisher's Island, N. Y., will be received here until noon, May 17, 1899, and then publicly opened. Information furnished on application. SMITH S. LEACH, Maj., Engrs. 16-4t

U. S. ENGINEER OFFICE, Milwaukee, Wis., April 10, 1899.—Sealed proposals for DREDGING at Menominee River, Oconto, Green Bay, Two Rivers and Milwaukee harbors will be received here until 12 o'clock, noon, standard time, May 17, 1899, and then publicly opened. Information furnished on application. J. G. WARREN, Capt., Engrs. 16-4t

U. S. ENGINEER OFFICE, 57 Park St., Grand Rapids, Mich., April 19, 1899.—Sealed proposals for repairing Government PIER at Saint Joseph, Mich., will be received here until 3 p. m., May 19, 1899, and then publicly opened. Information furnished on application. CHESTER HARDING, Capt., Engrs. 16-4t

U. S. ENGINEER OFFICE, 185 Euclid Ave., Cleveland, O., April 15, 1899.—Sealed proposals for dredging channels and for constructing jetty and bar protection of brush and stone at Sandusky Harbor, Ohio, will be received here until 2 o'clock, p. m., central standard time, May 15, 1899, and then publicly opened. Information furnished on application. JARED A. SMITH, Col., Engrs. 16-4t

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